

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

6194191

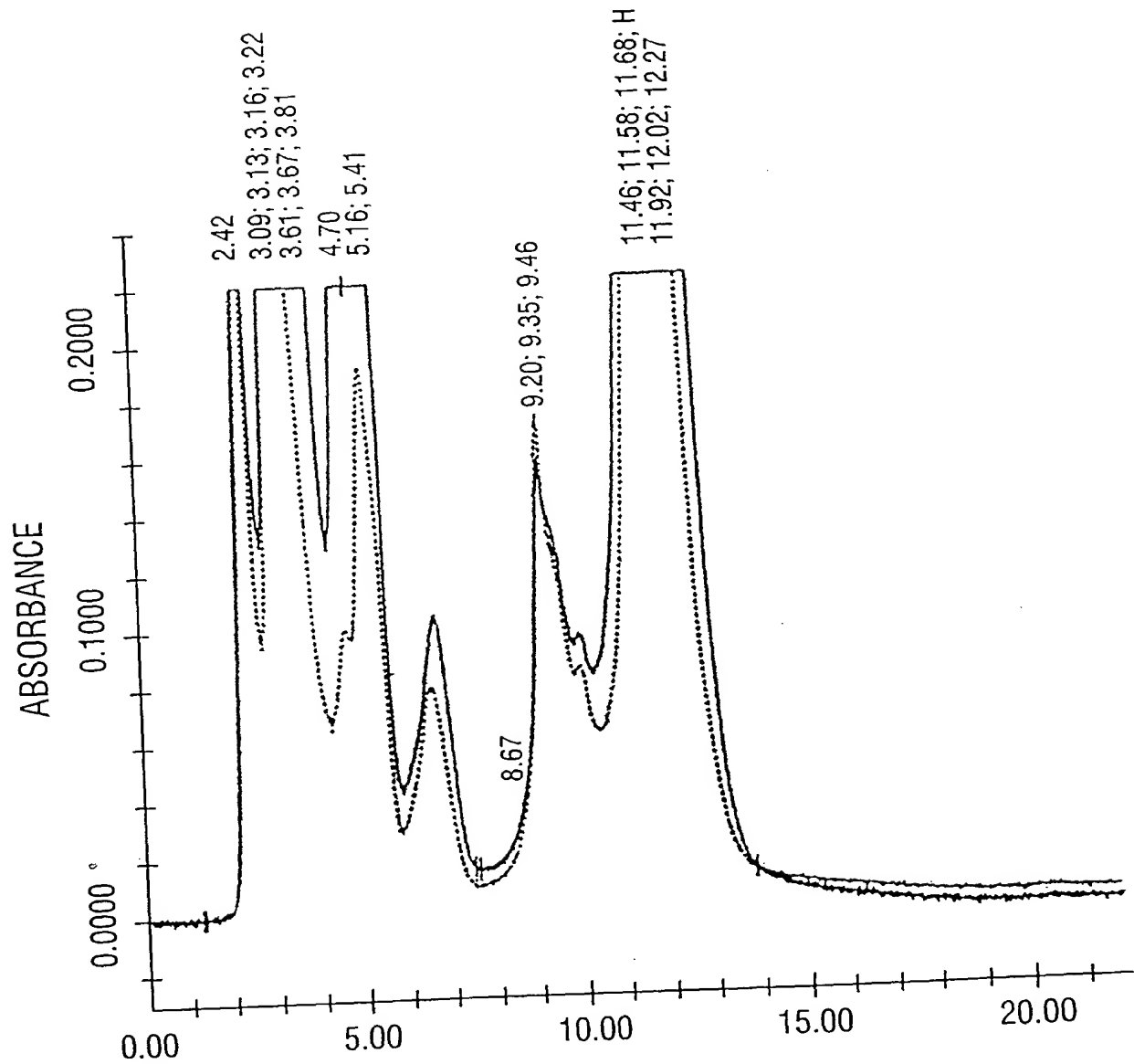


FIG. 1A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

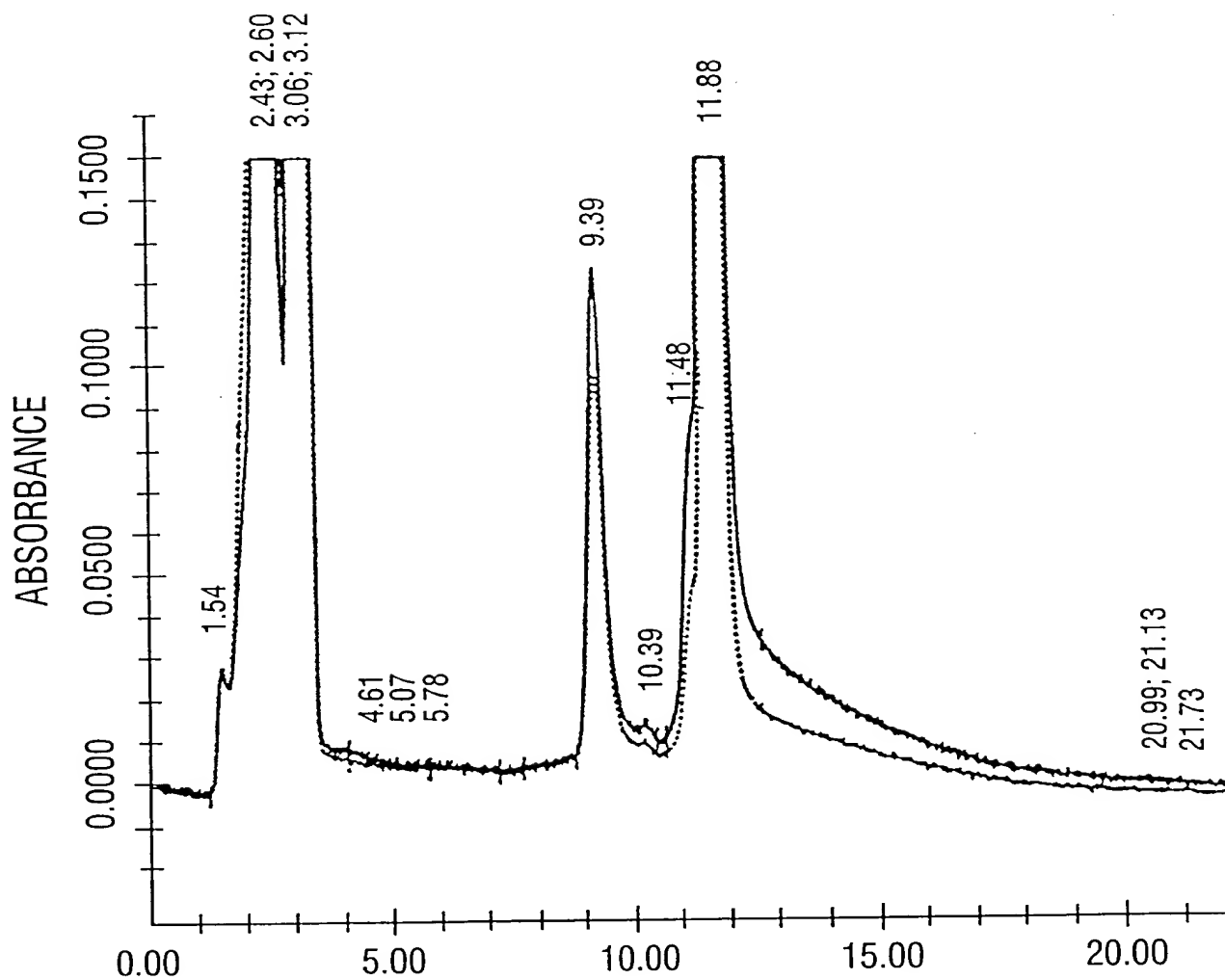


FIG. 1B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

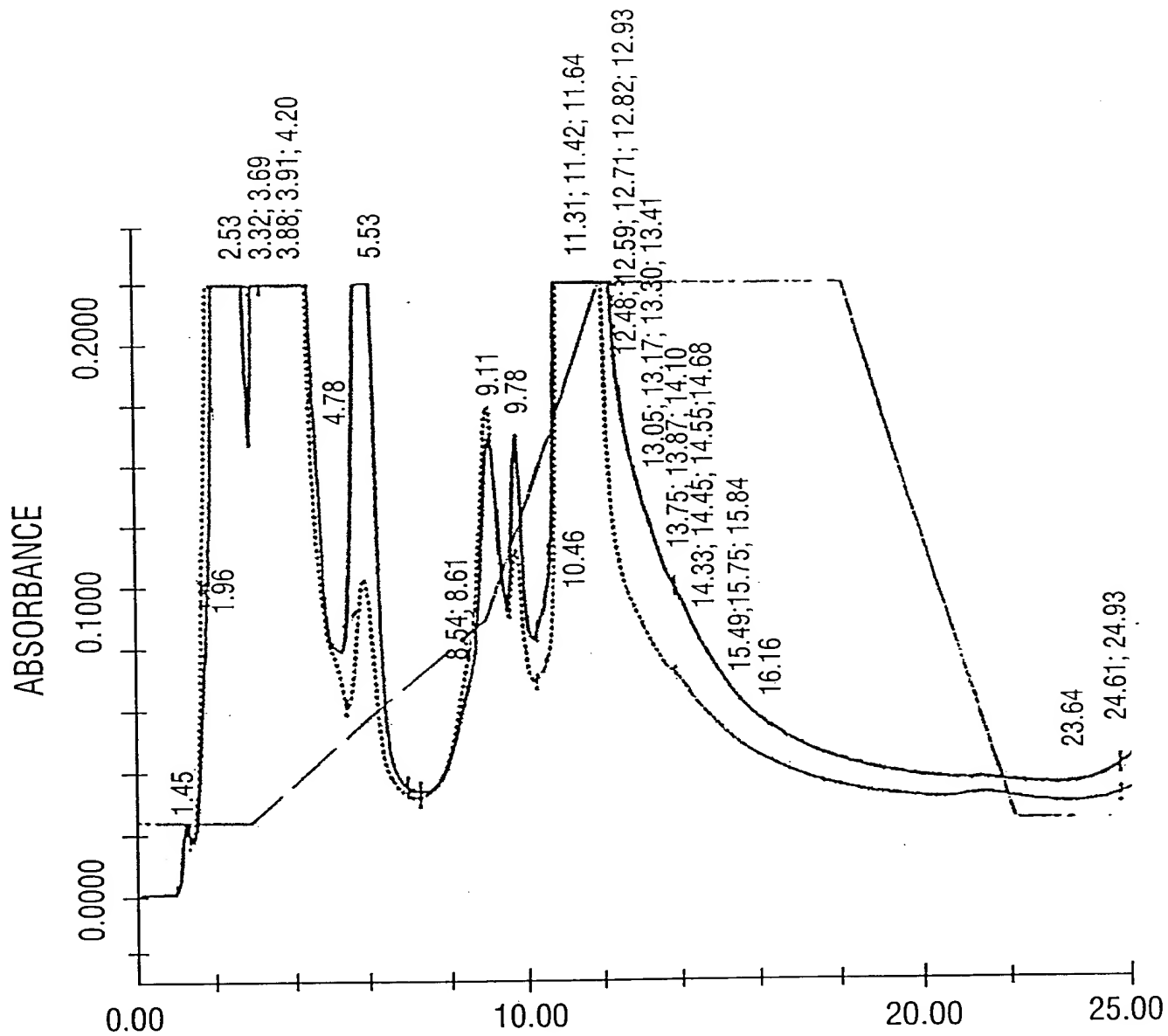


FIG. 2

APPROVED	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

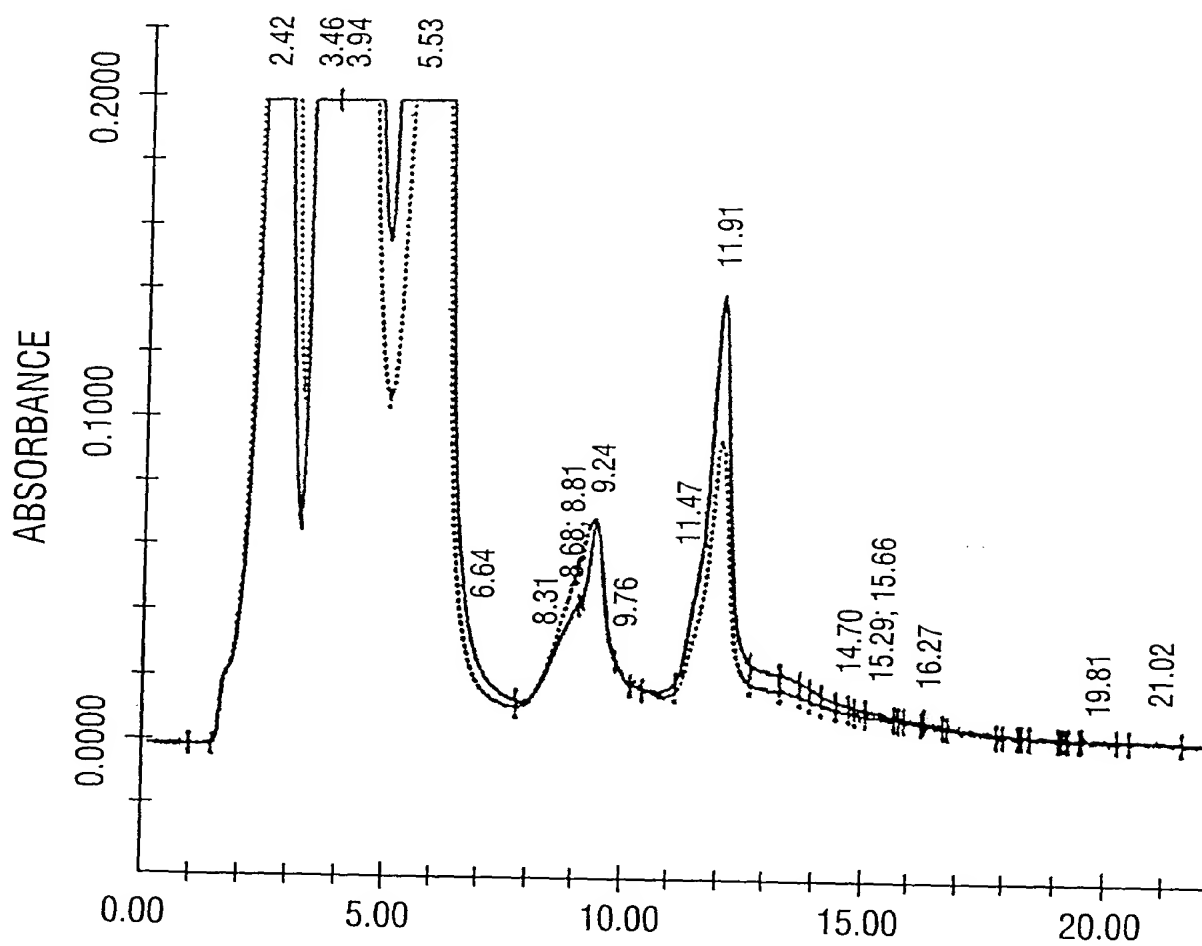


FIG. 3A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

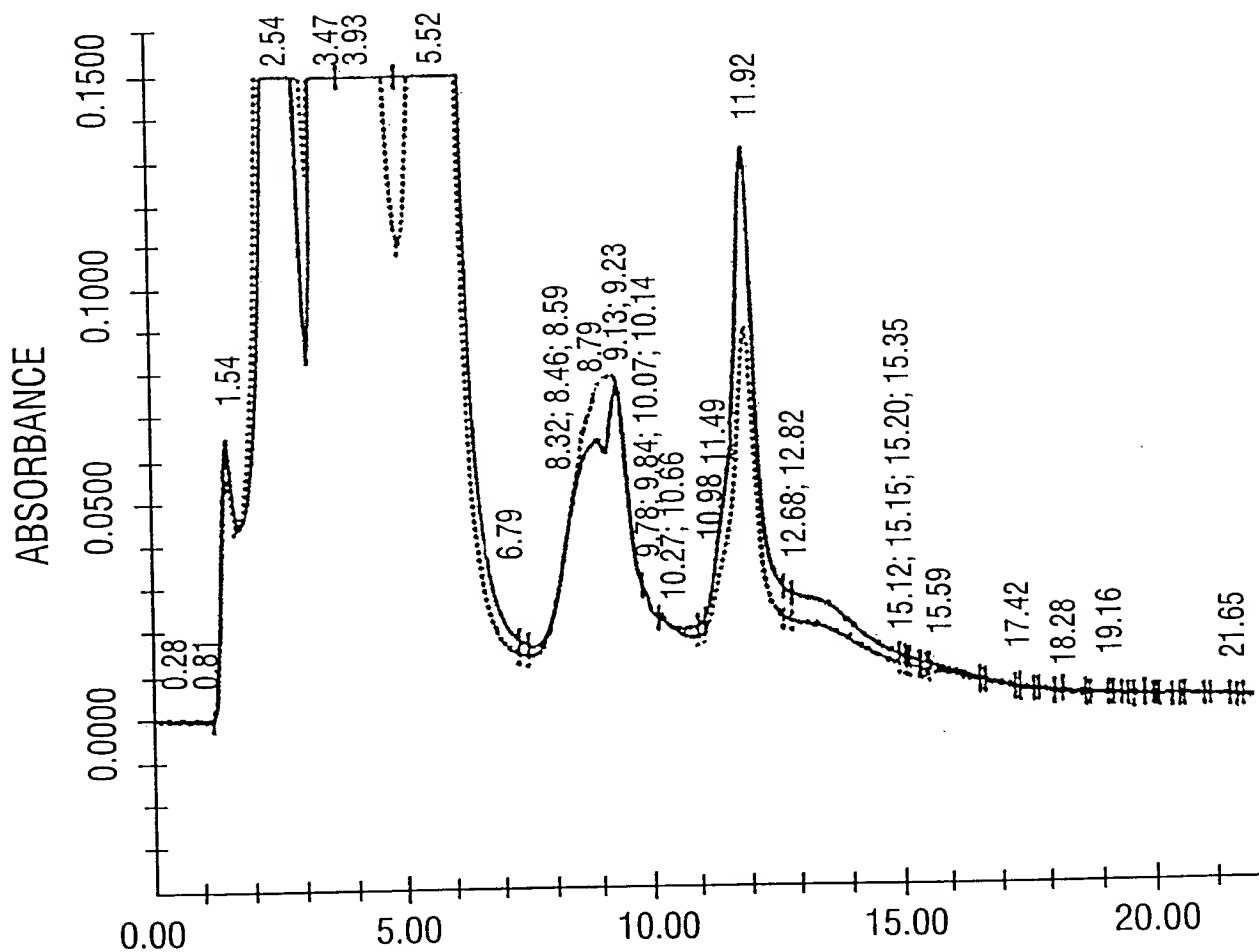


FIG. 3B

APPROVED	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

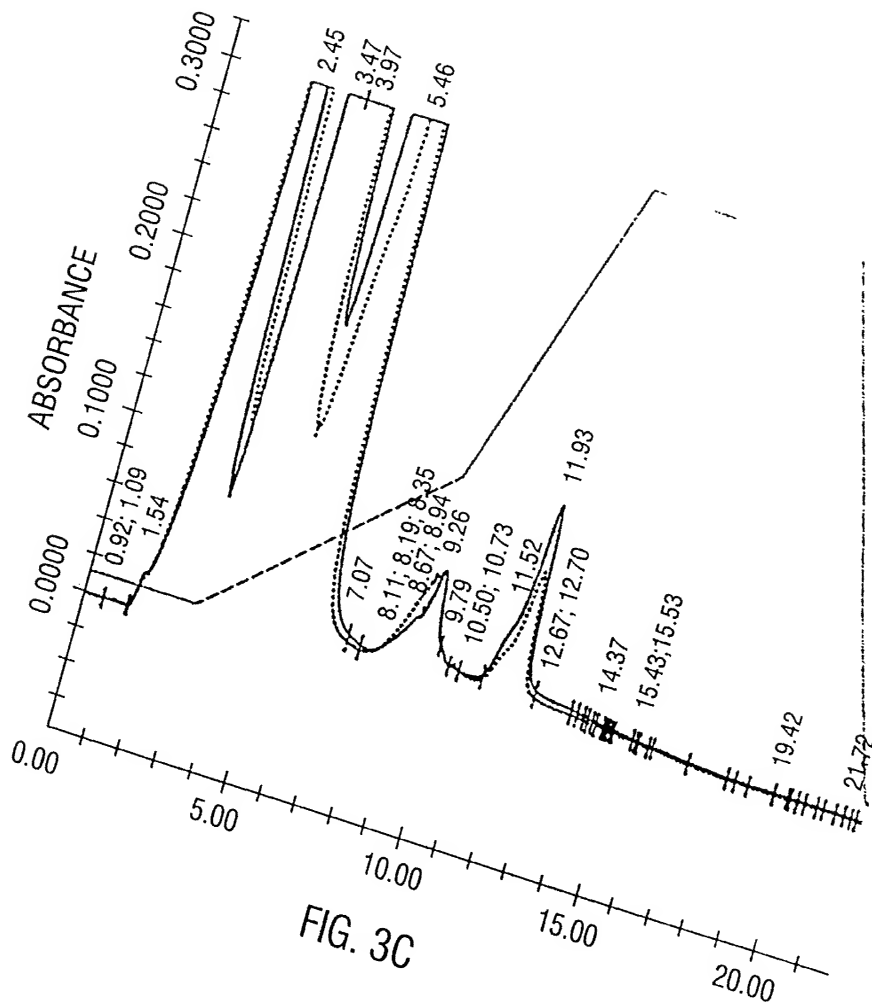


FIG. 3C

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

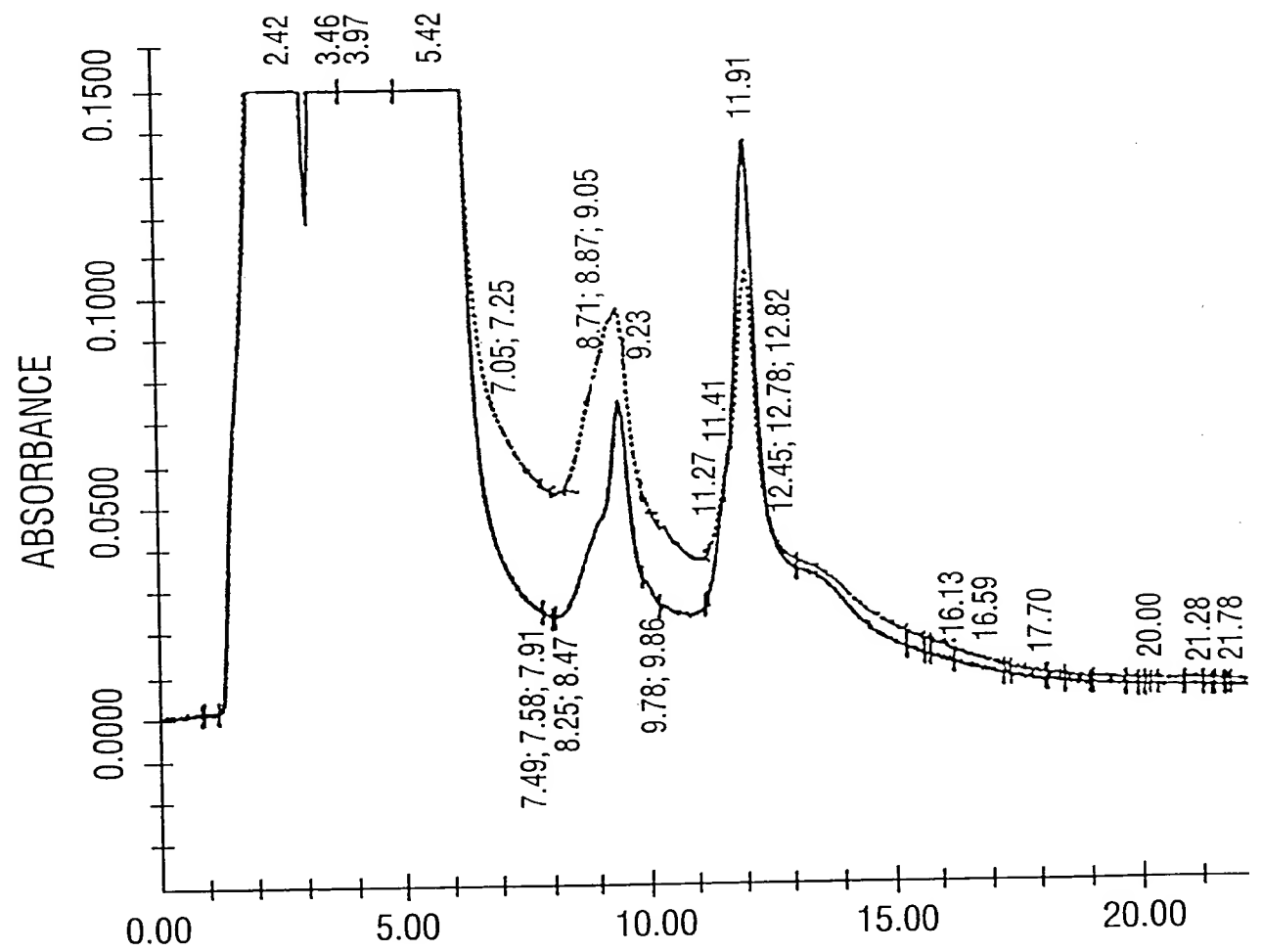


FIG. 3D

APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

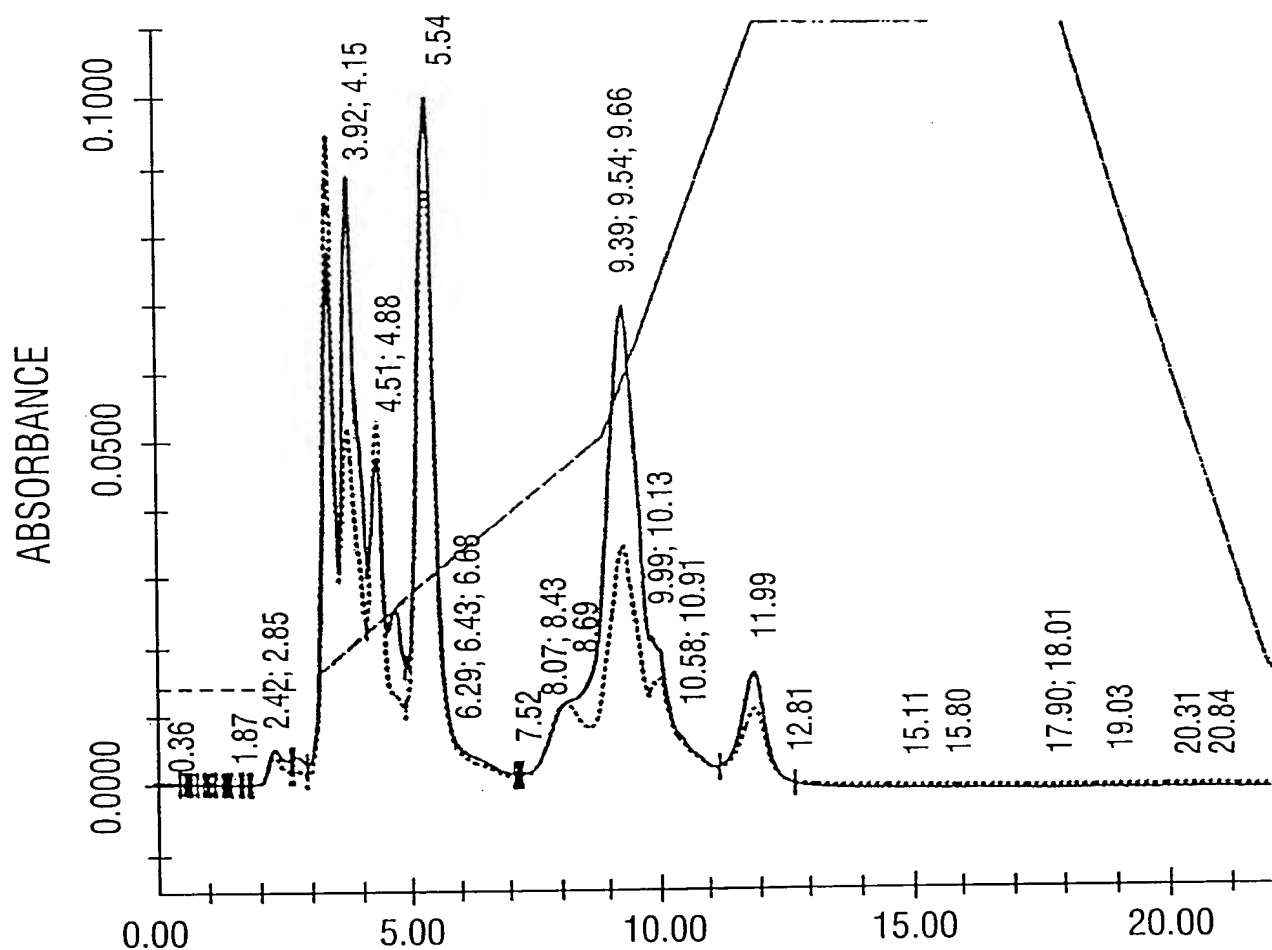


FIG. 3E



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

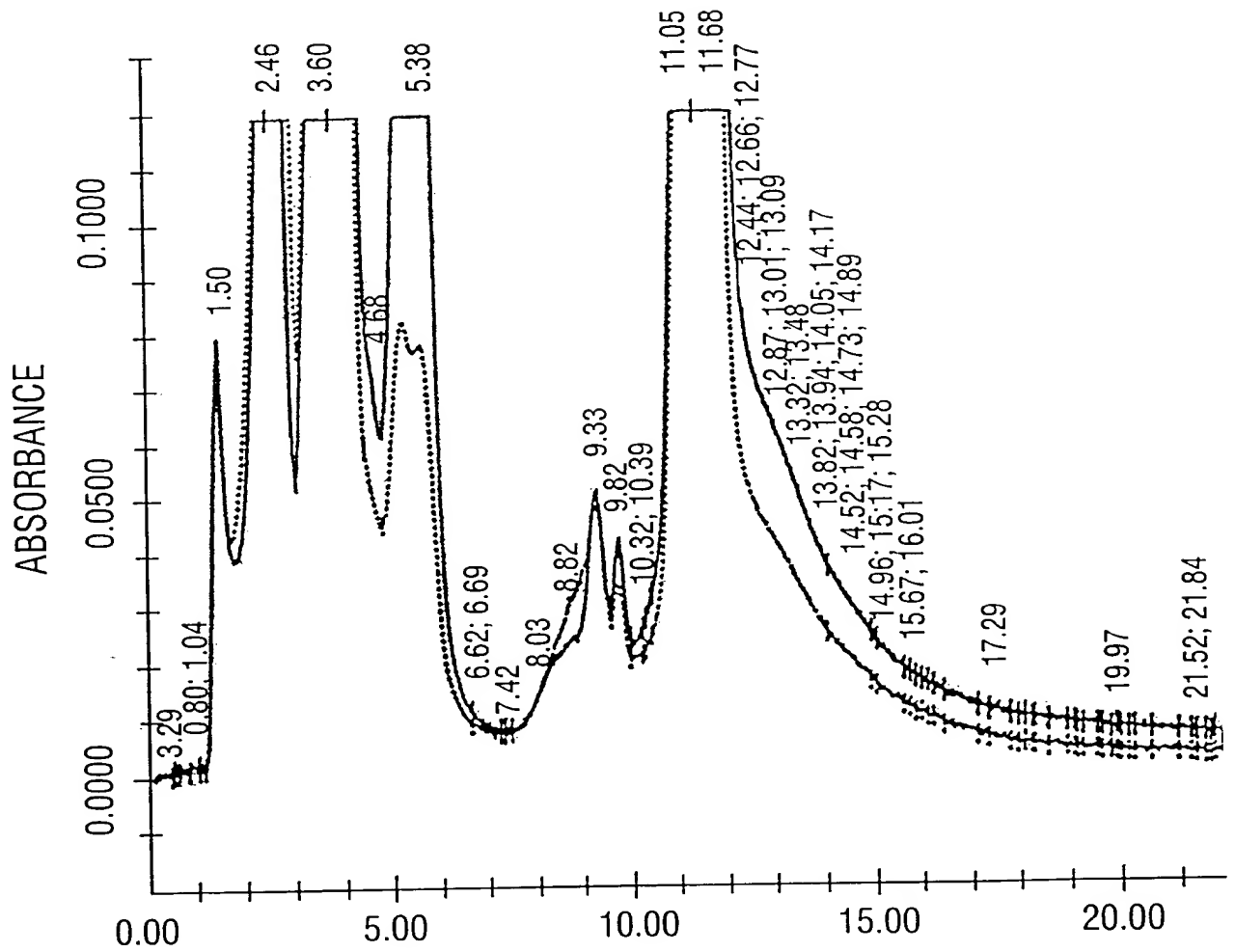


FIG. 4A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

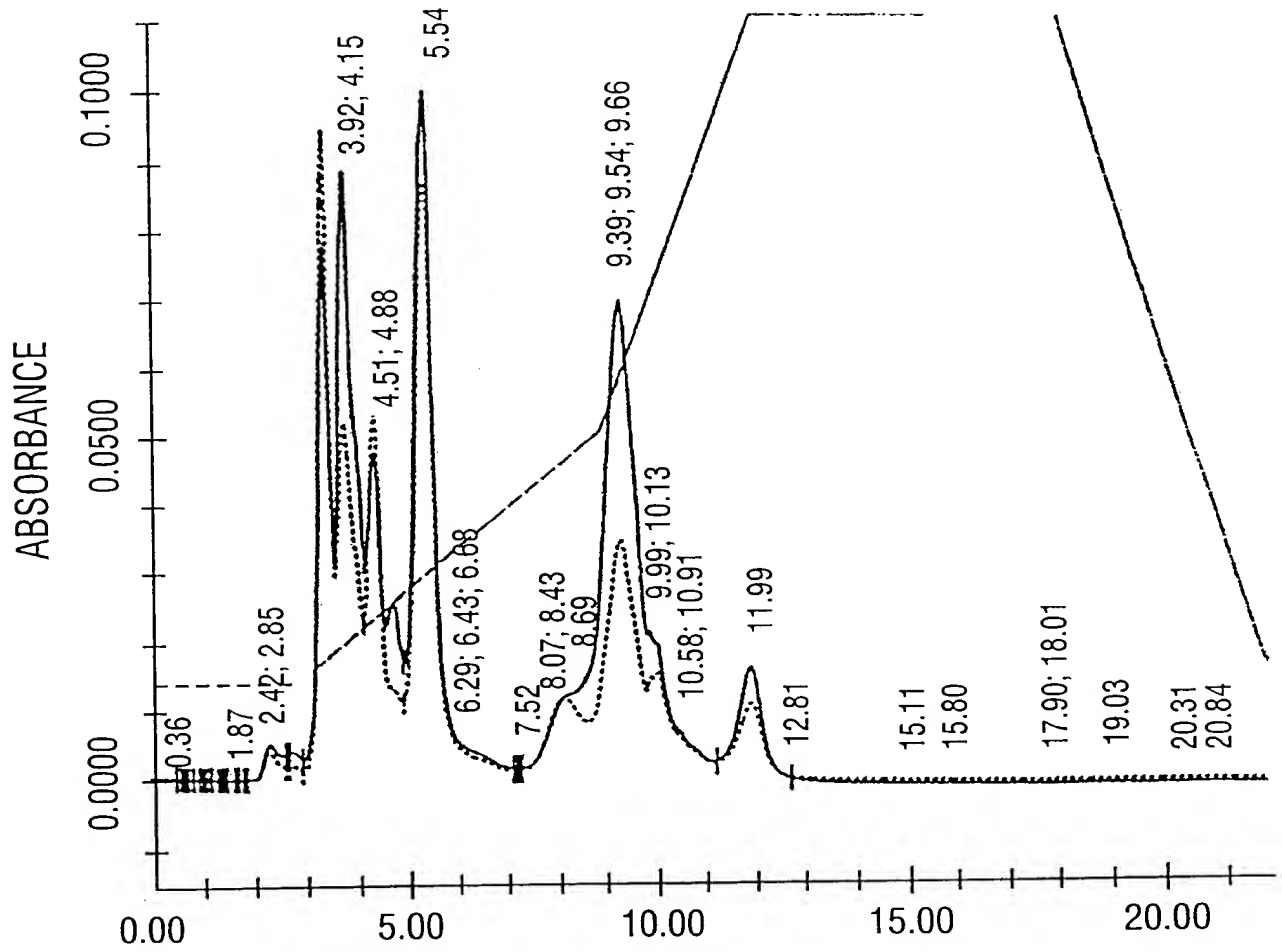


FIG. 4B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

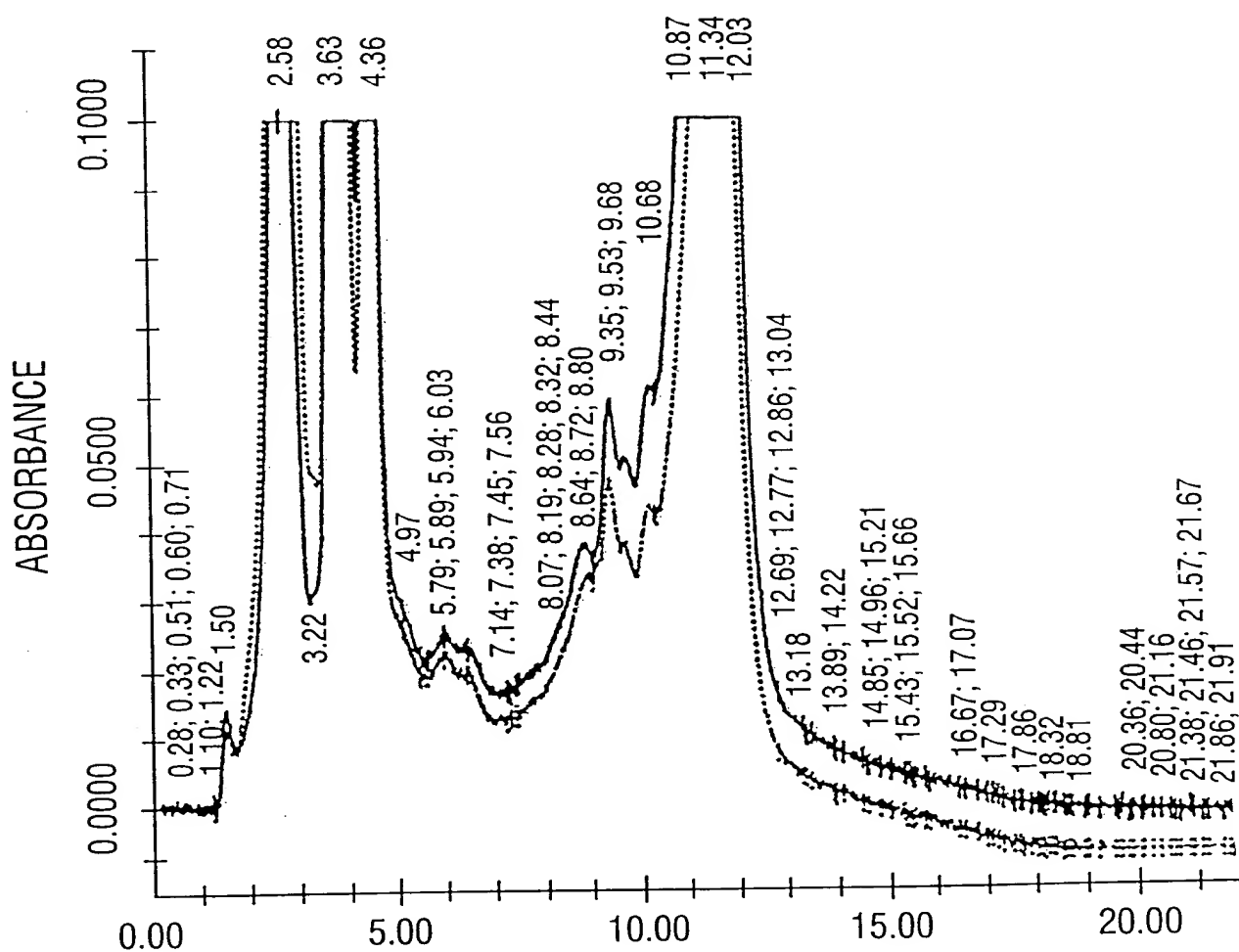


FIG. 5

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

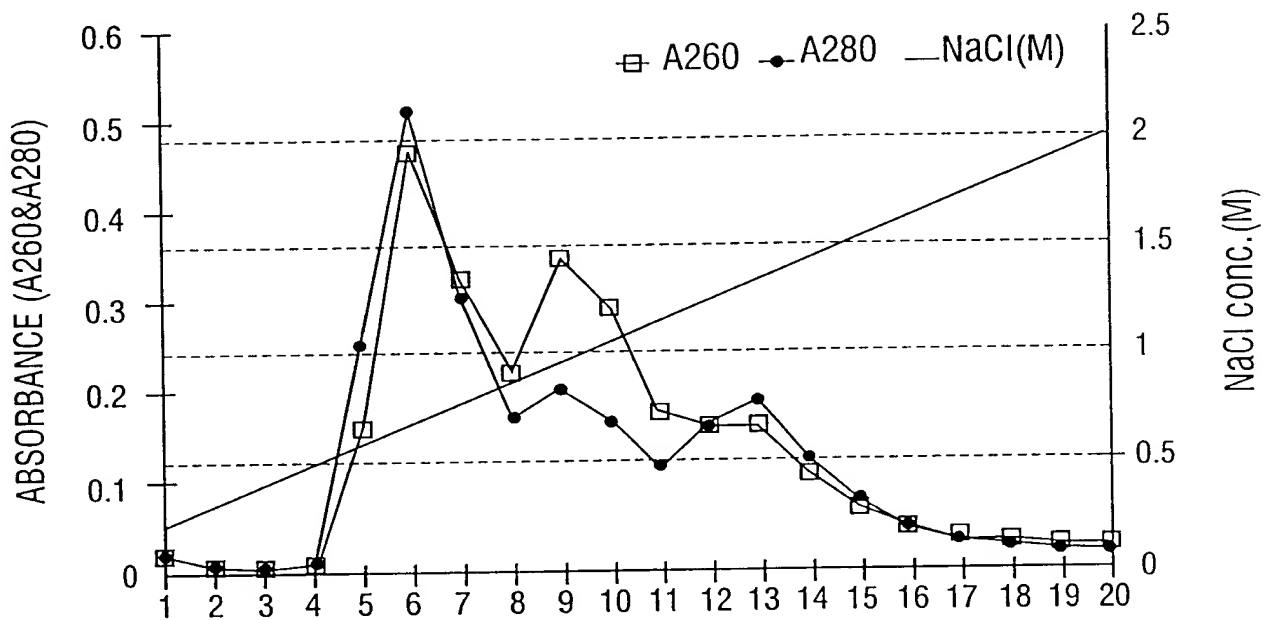


FIG. 6

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

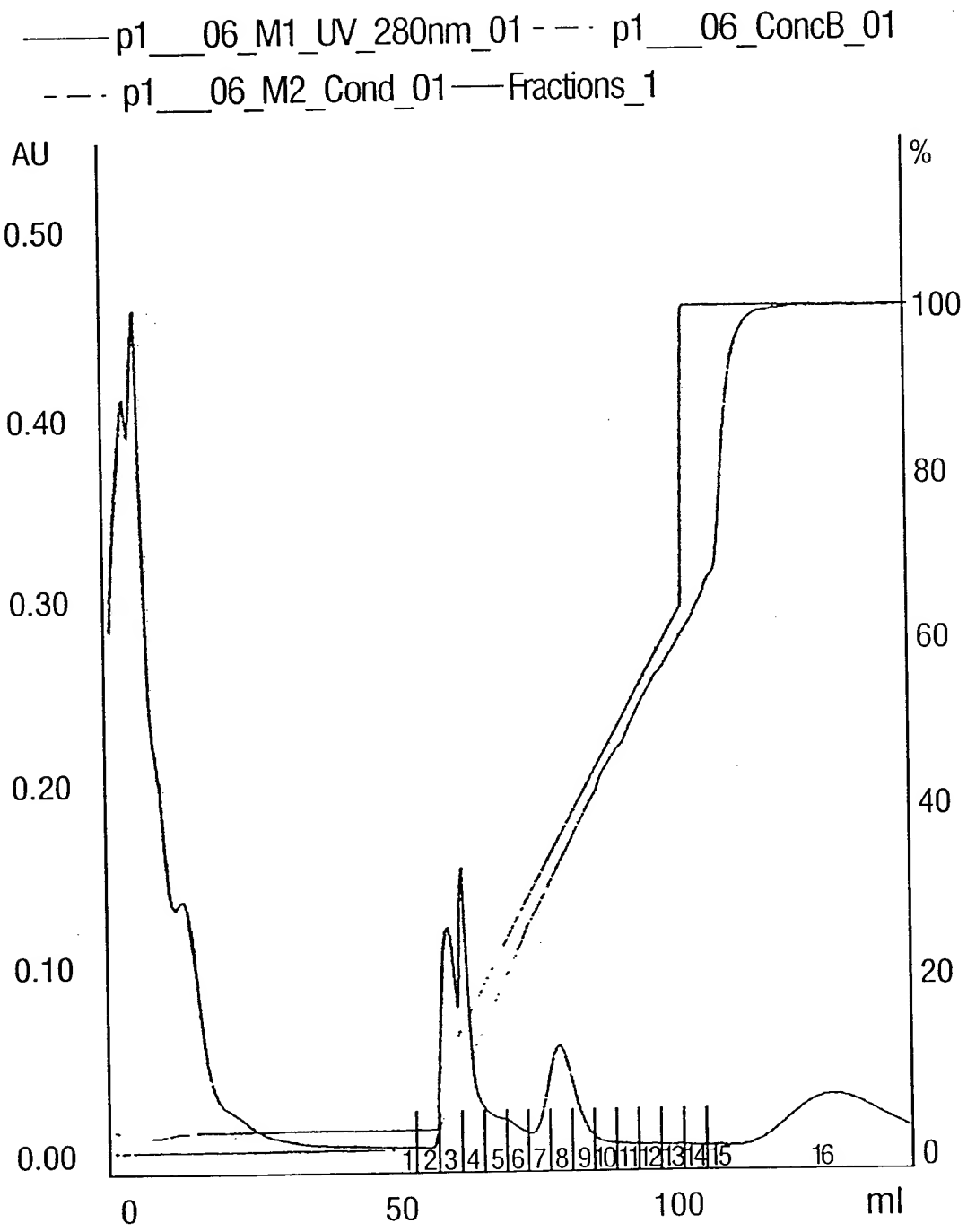


FIG. 7

APPROVED	O.G.FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

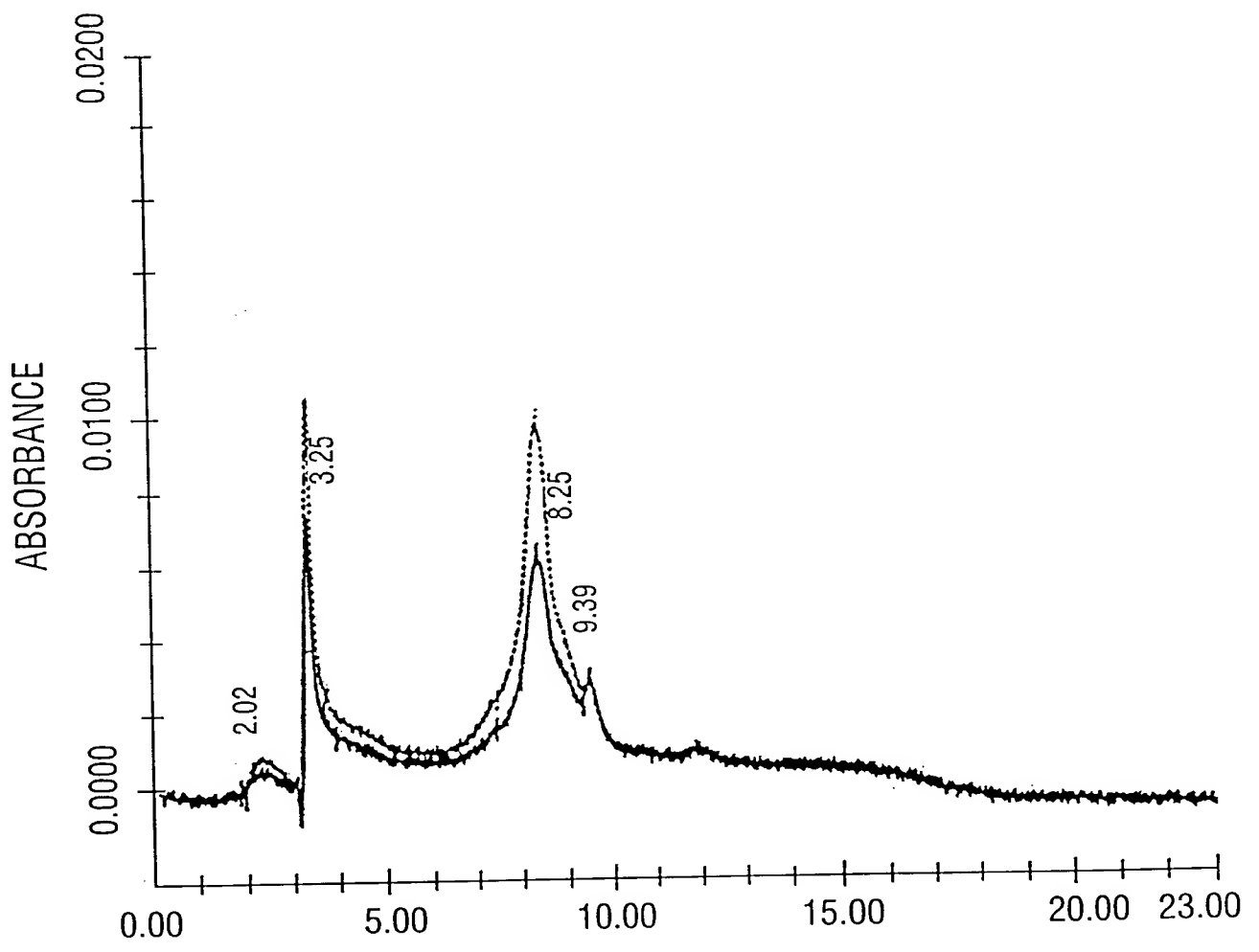


FIG. 8A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

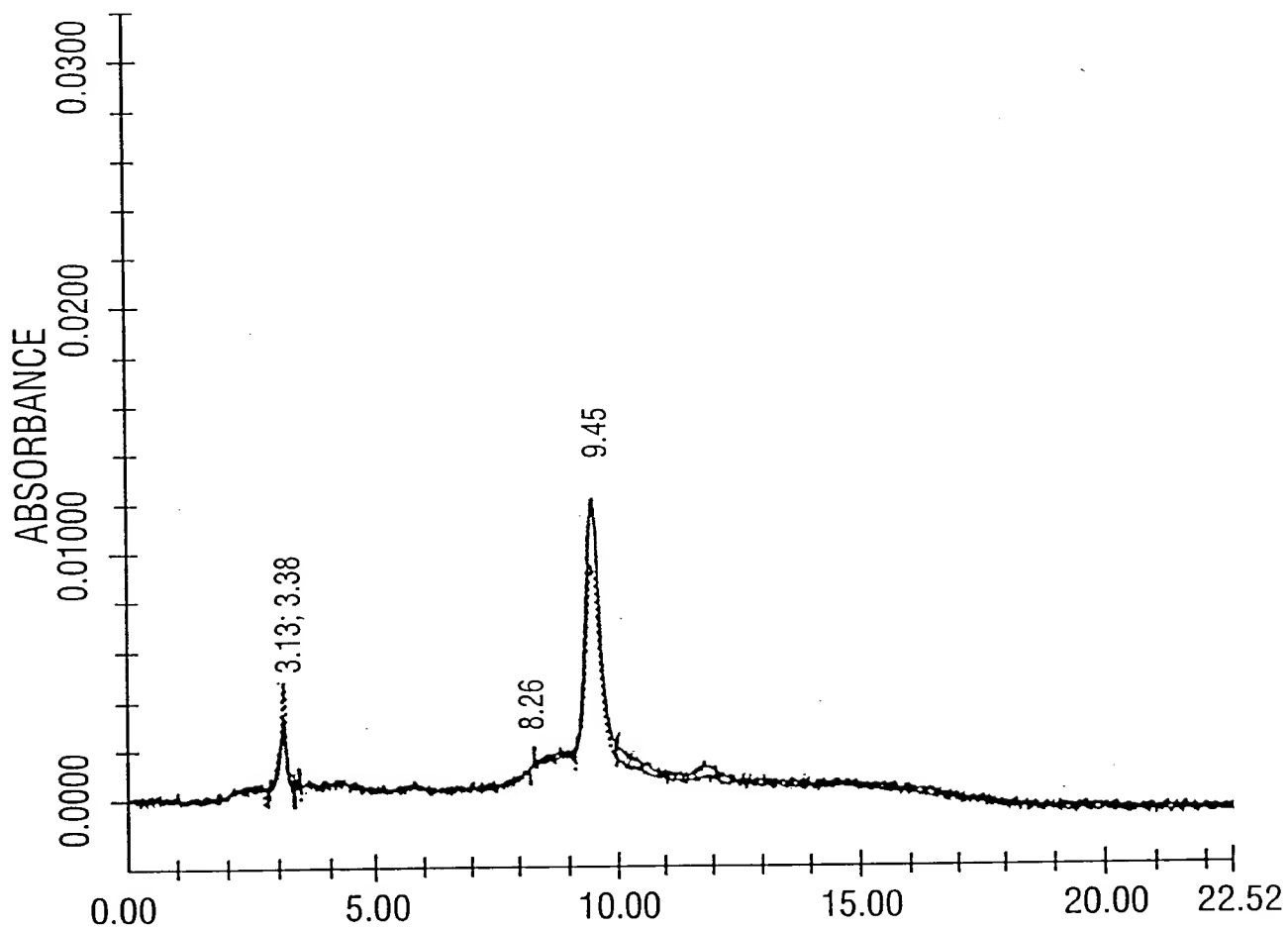


FIG. 8B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

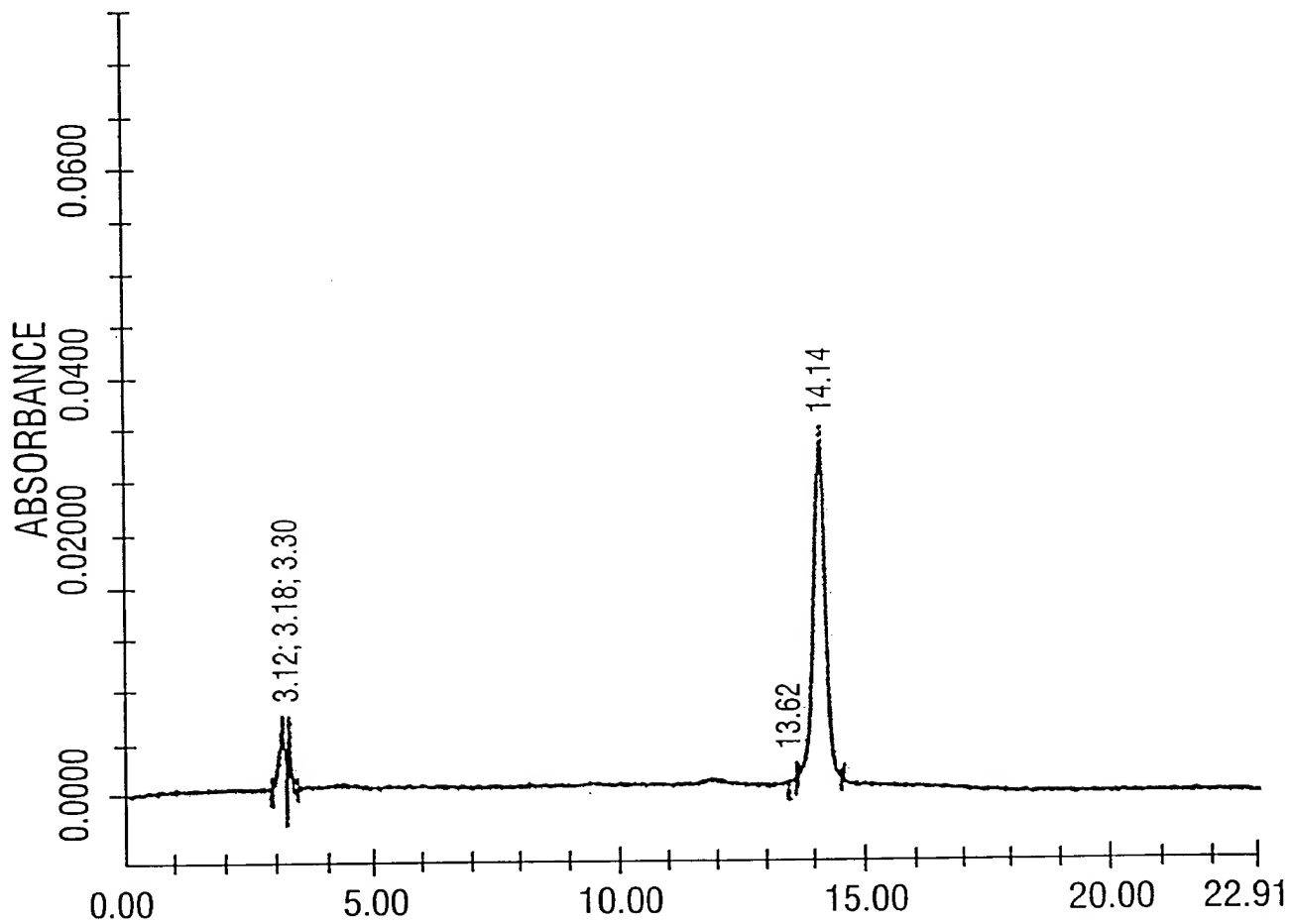


FIG. 8C



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

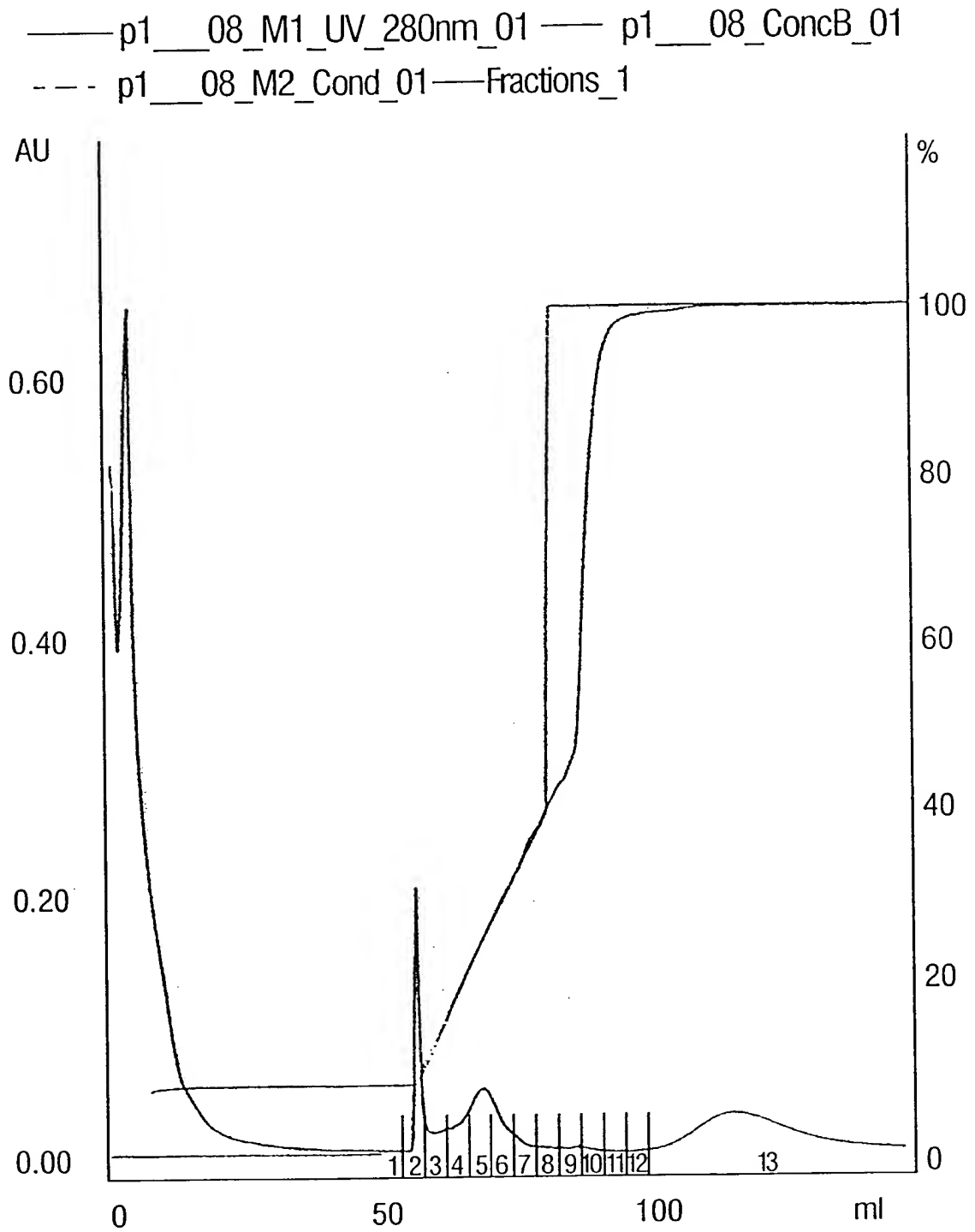


FIG. 9

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

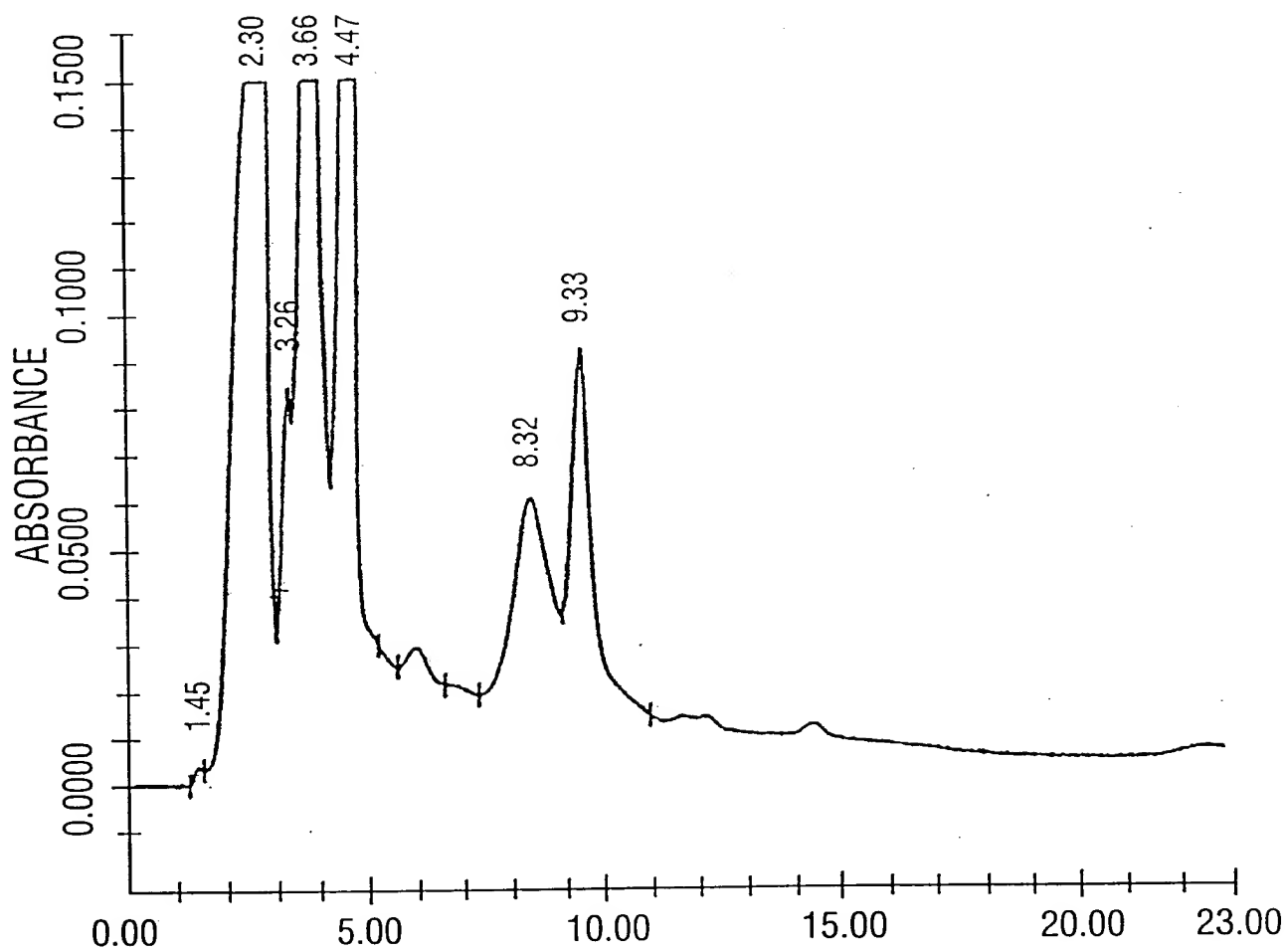


FIG. 10A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

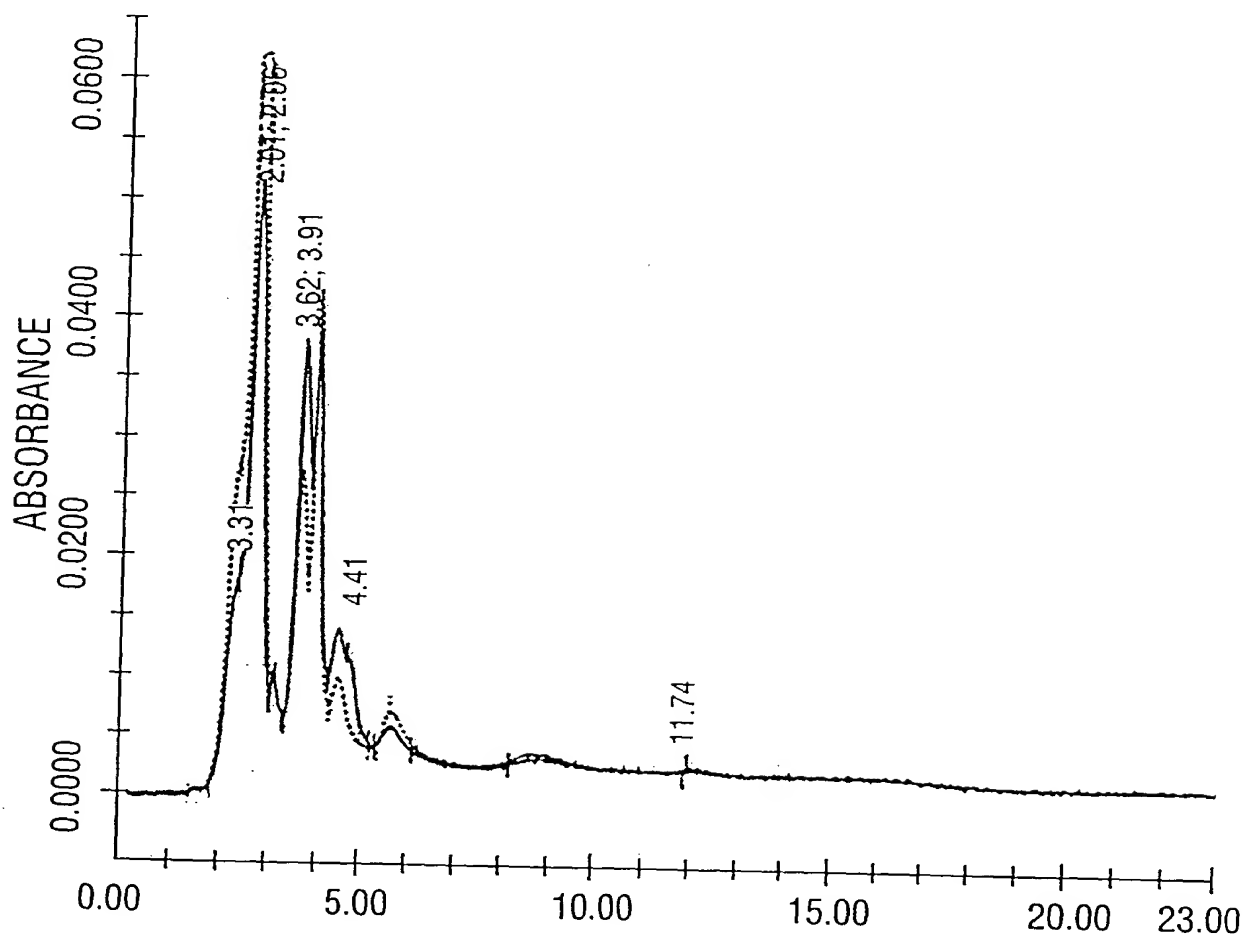


FIG. 10B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

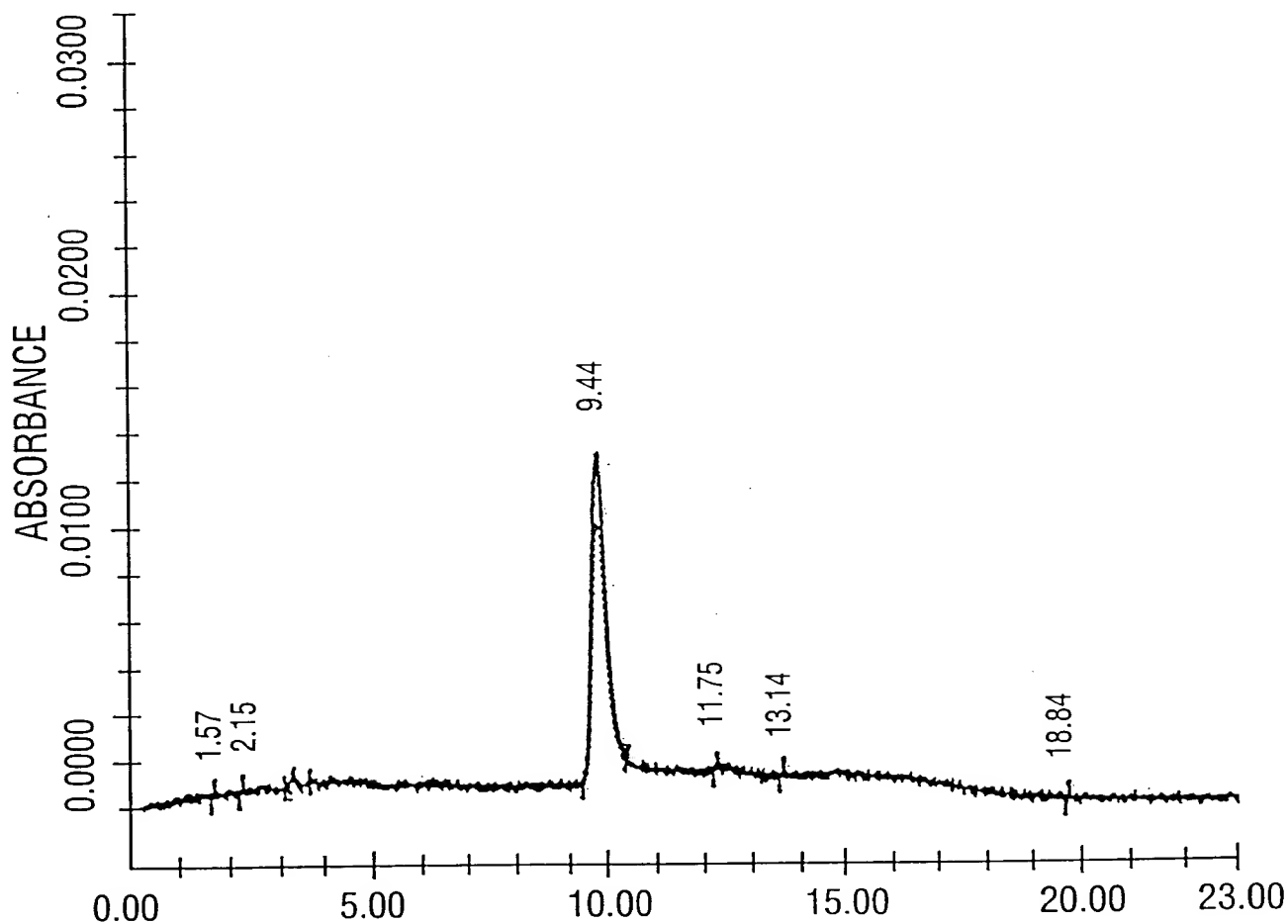


FIG. 10C

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

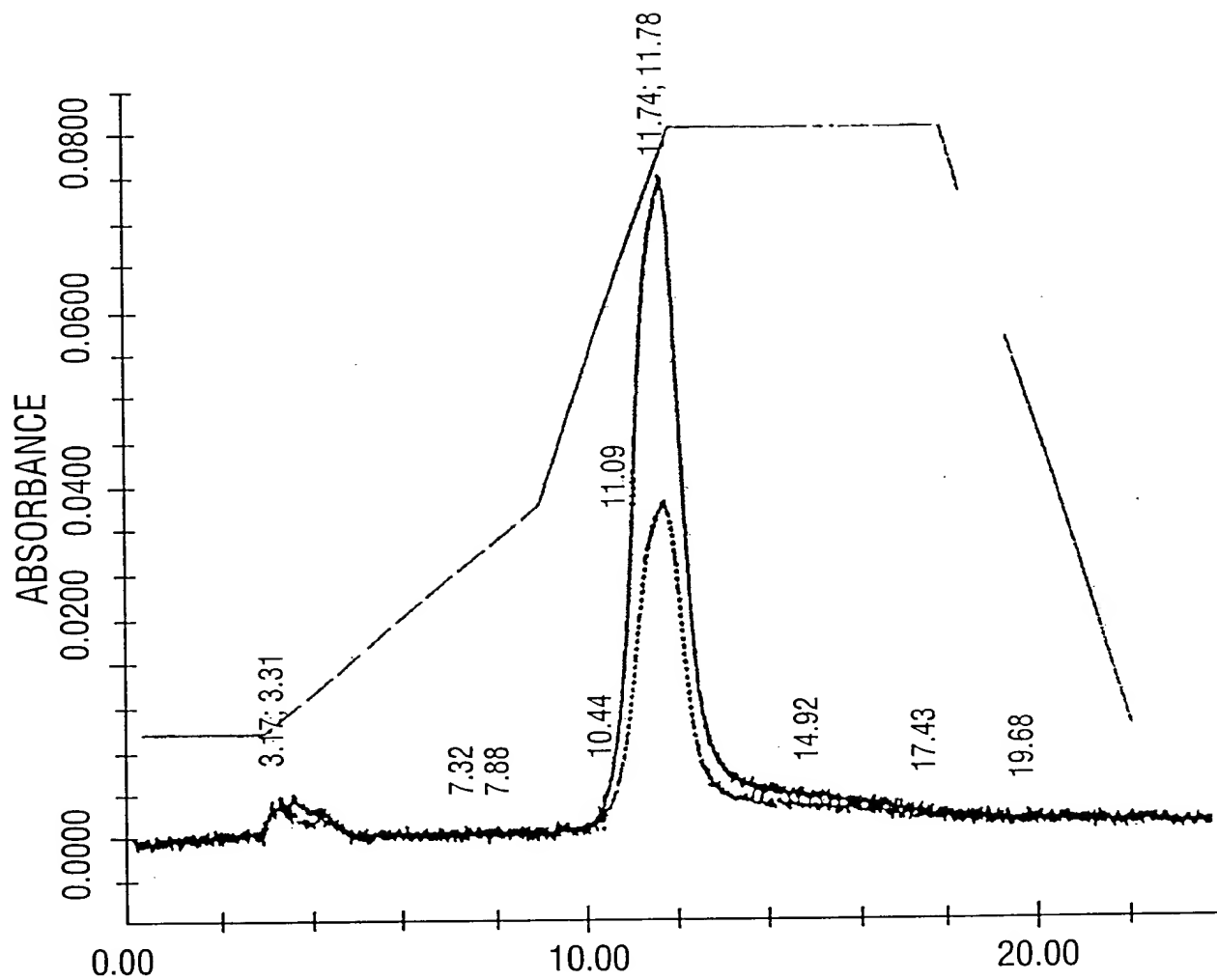


FIG. 10D

APPROVED	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

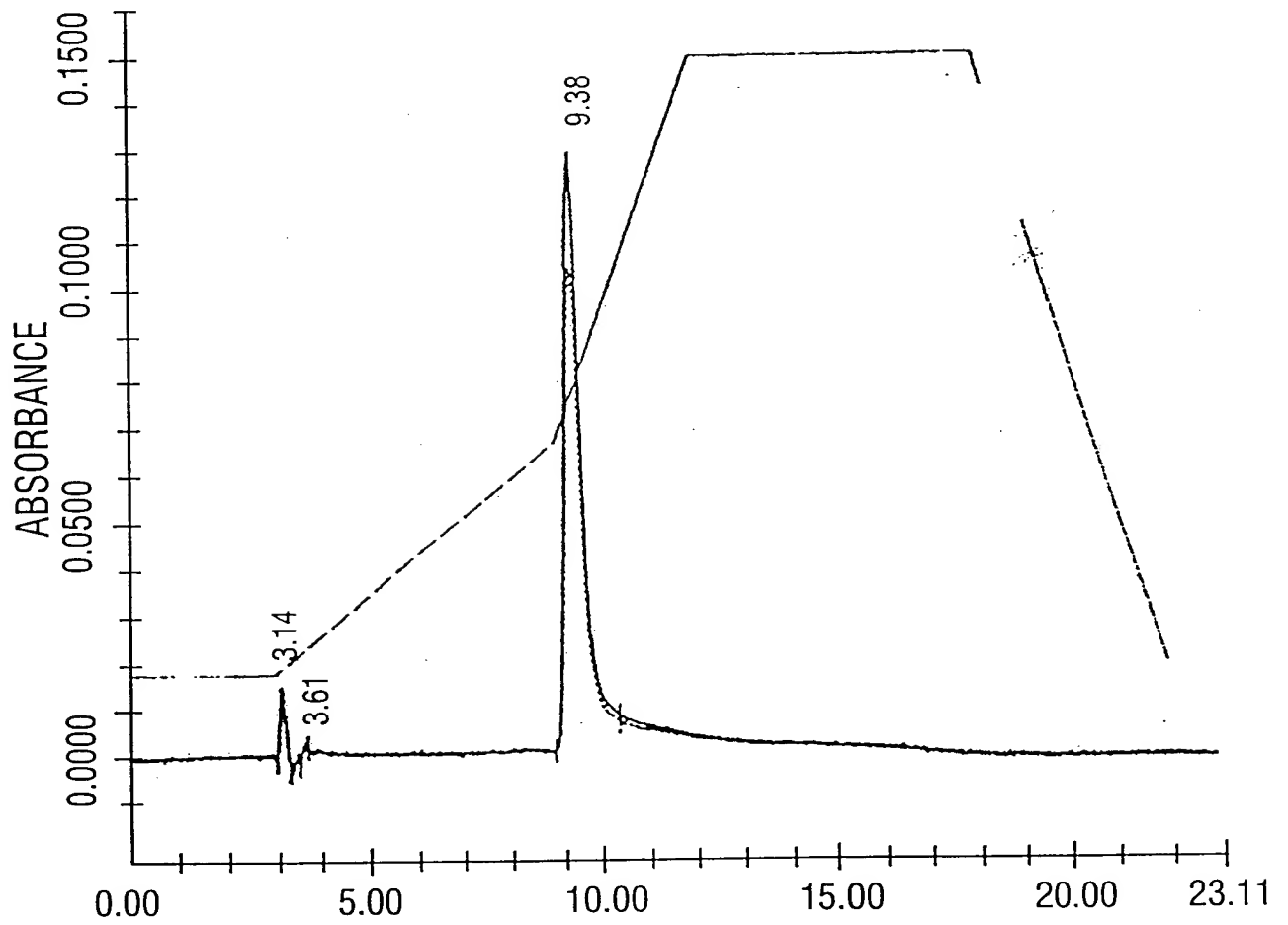


FIG. 10E

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

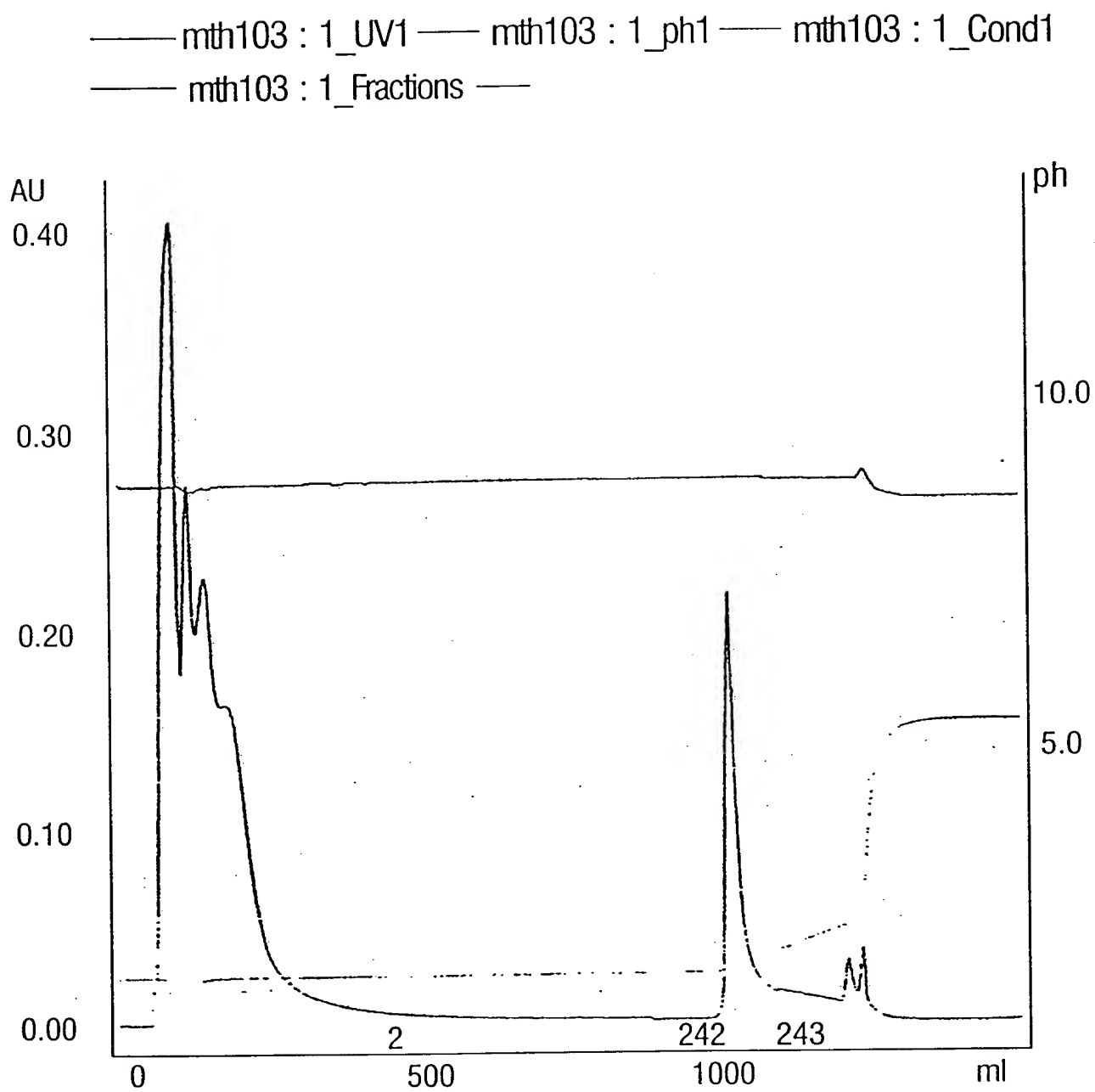


FIG. 11

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

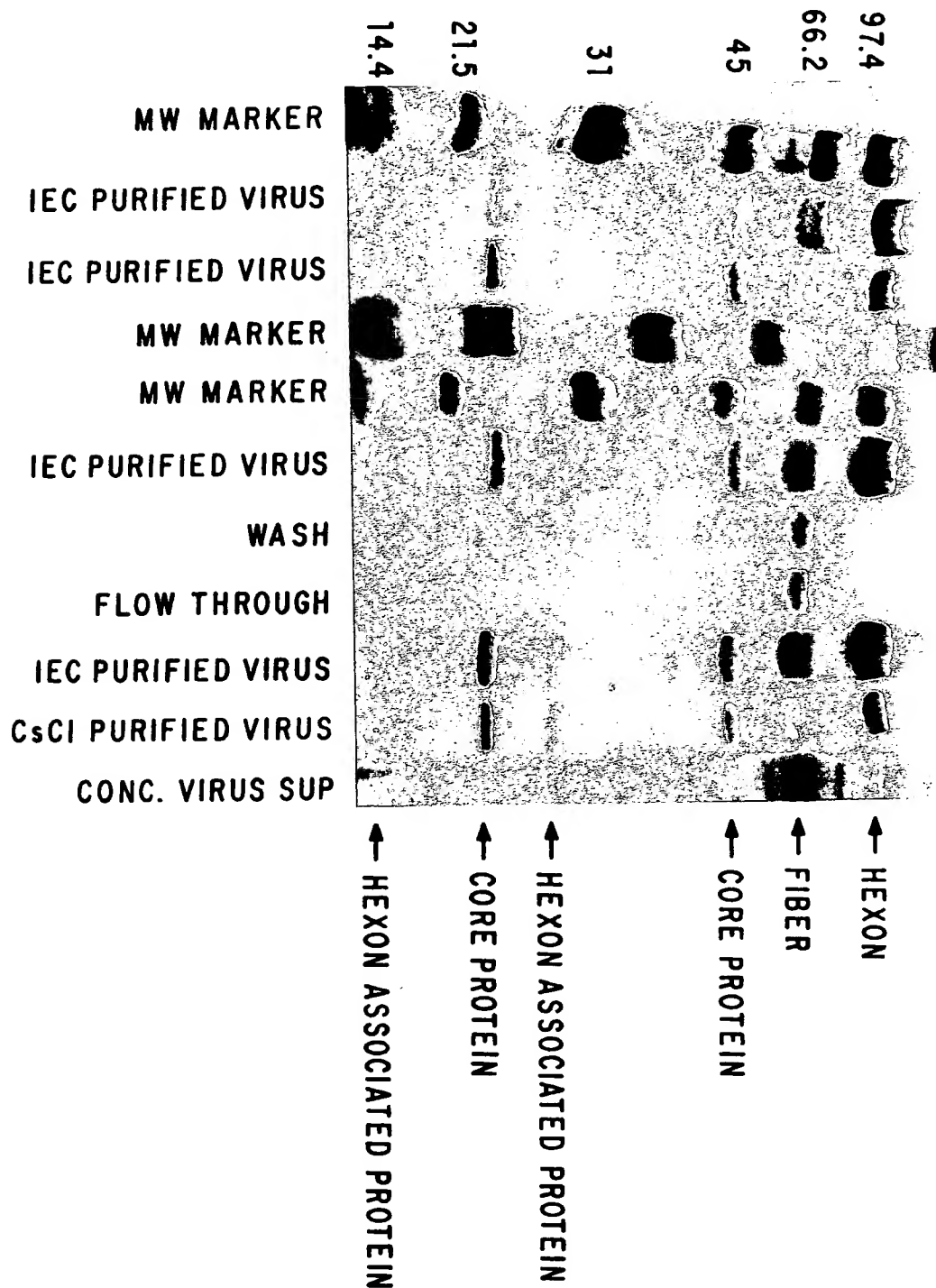


FIG.12

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

↓ 66.2 kd

NOVEX MWM  
BSA STD  
VECTOR SUP  
CONC./DIAFIL.SUP  
IEC PURIFIED Adp53  
CsCI PURIFIED Adp53  
BSA STD  
FLOW THRU  
WASH

NOVEX MWM

FIG.13

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

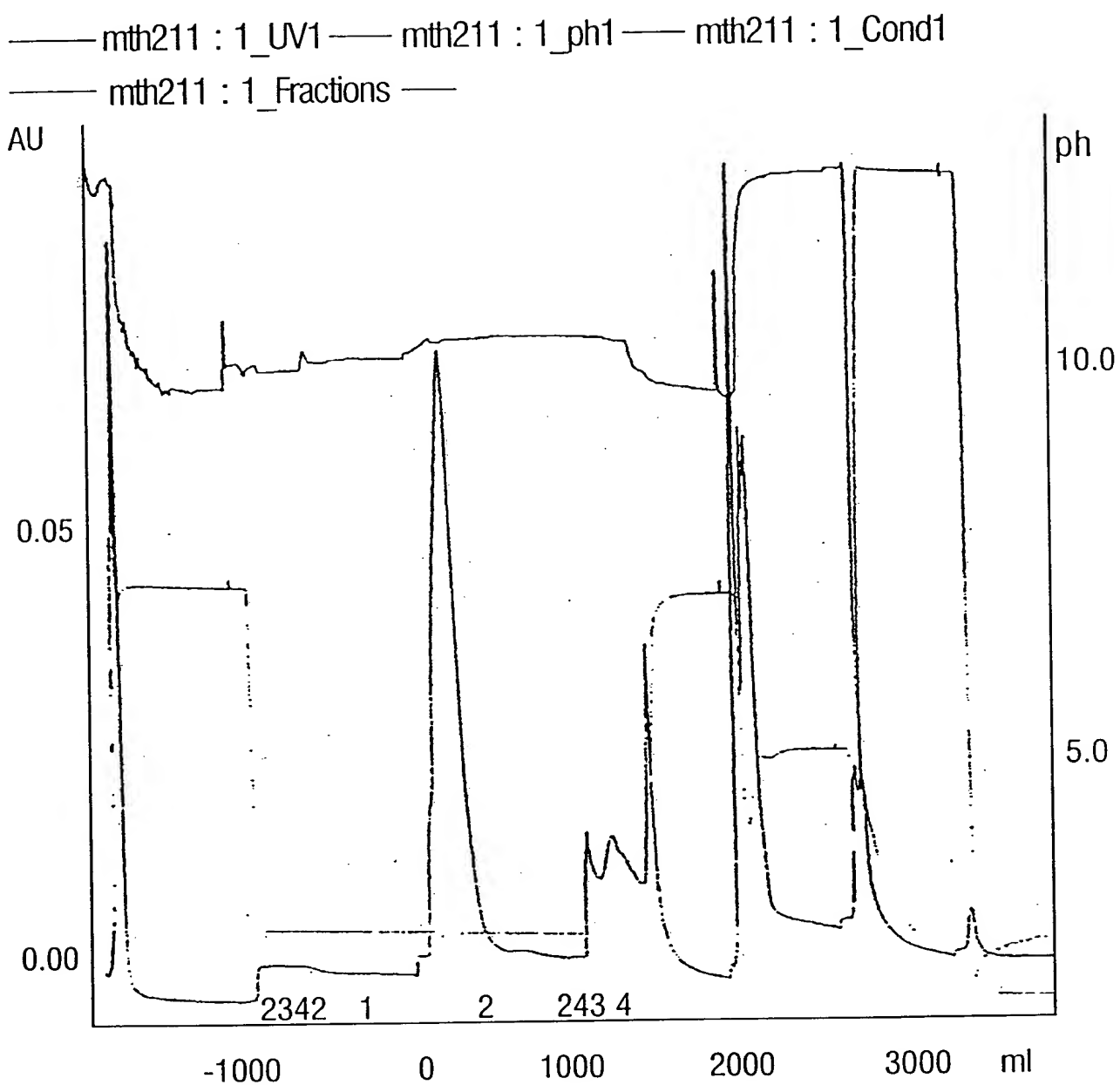


FIG. 14

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

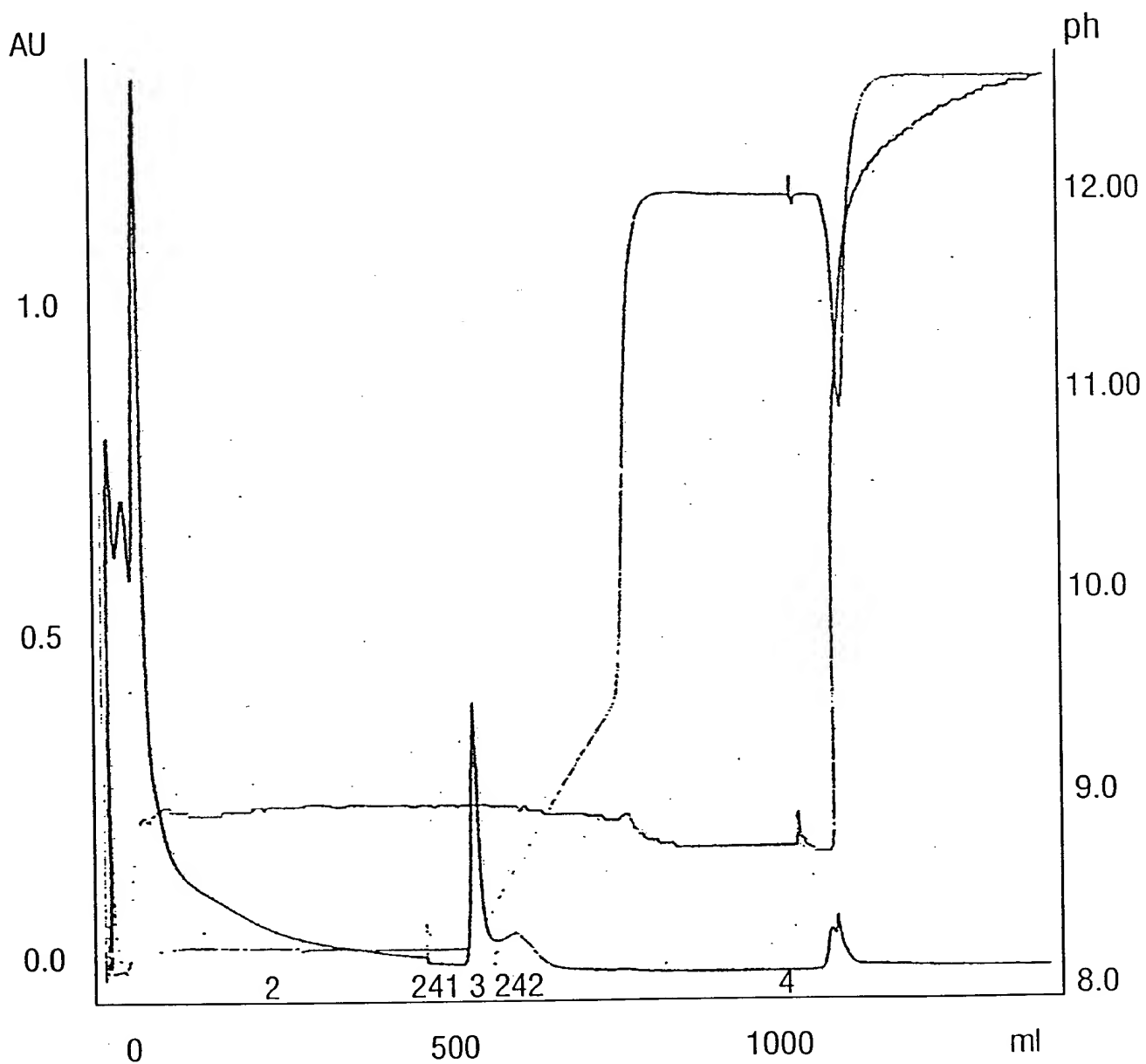


FIG. 15

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APPROVED	O.G: FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

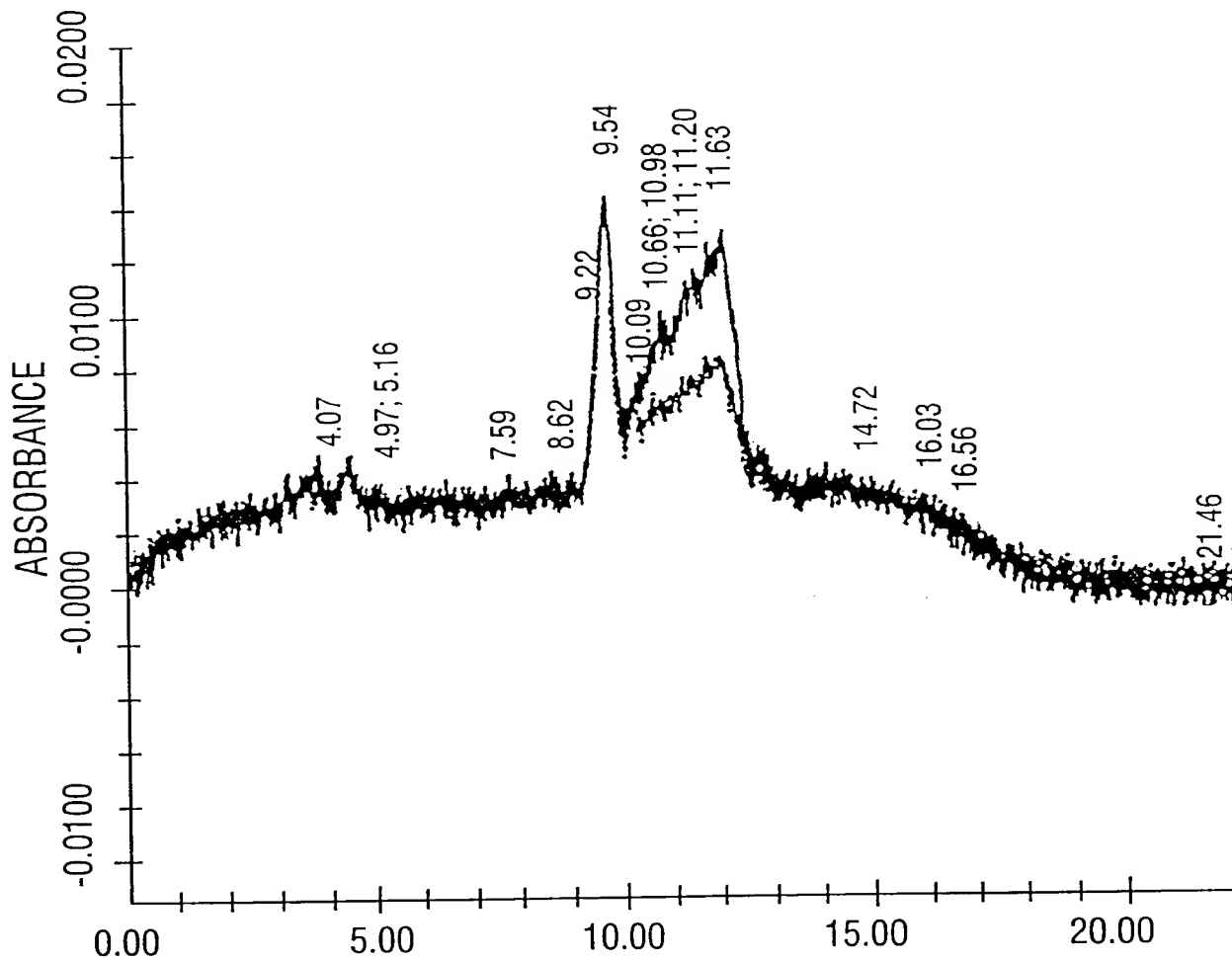


FIG. 16A

*Handwritten signature*

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

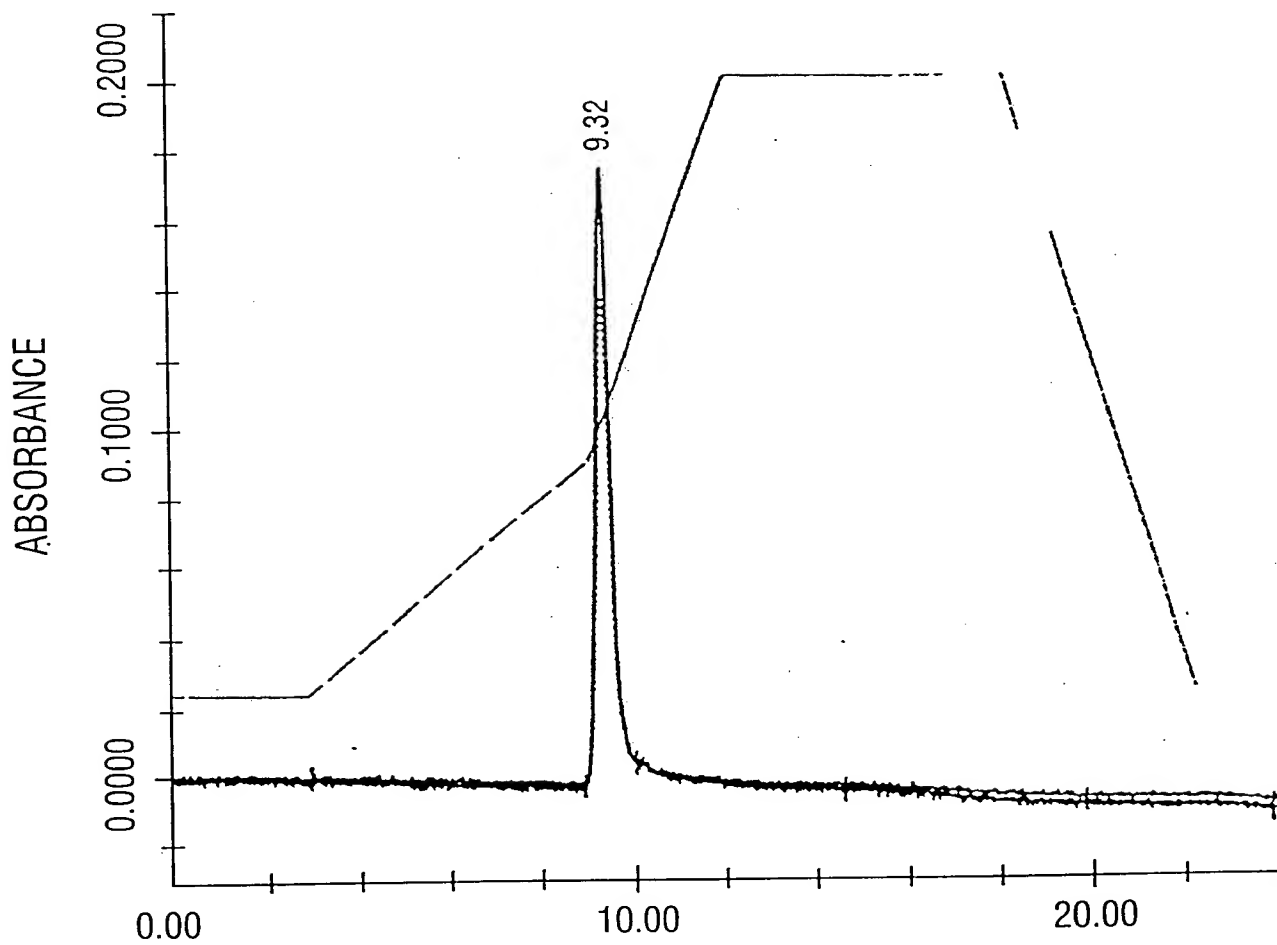


FIG. 16B

*[Handwritten signature]*

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
RAFTSMAN		

—— mth412 : 1\_UV1 —— mth412 : 1\_ph1 —— mth412 : 1\_Cond1  
—— mth412 : 1\_Fractions ——

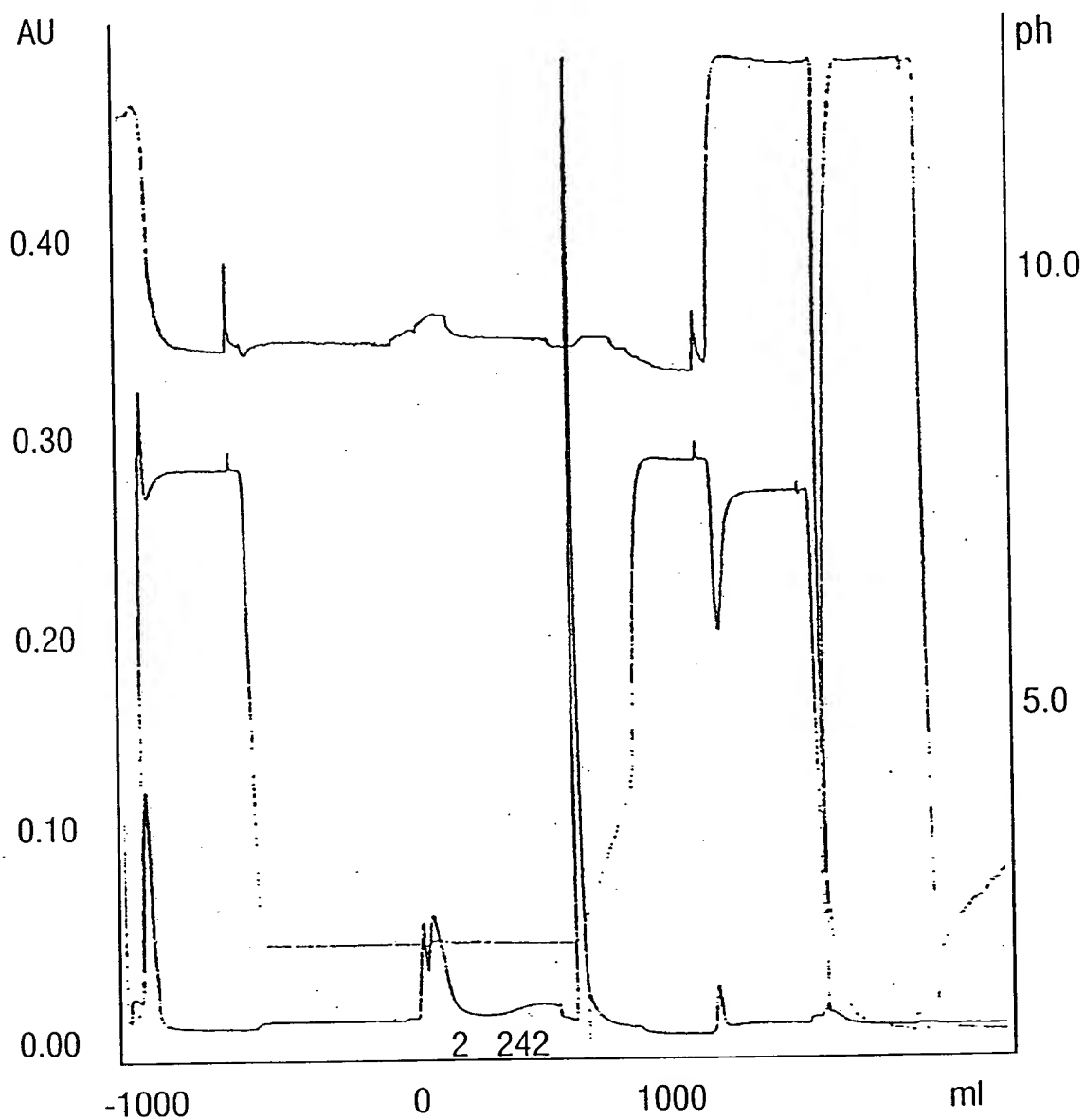


FIG. 17

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

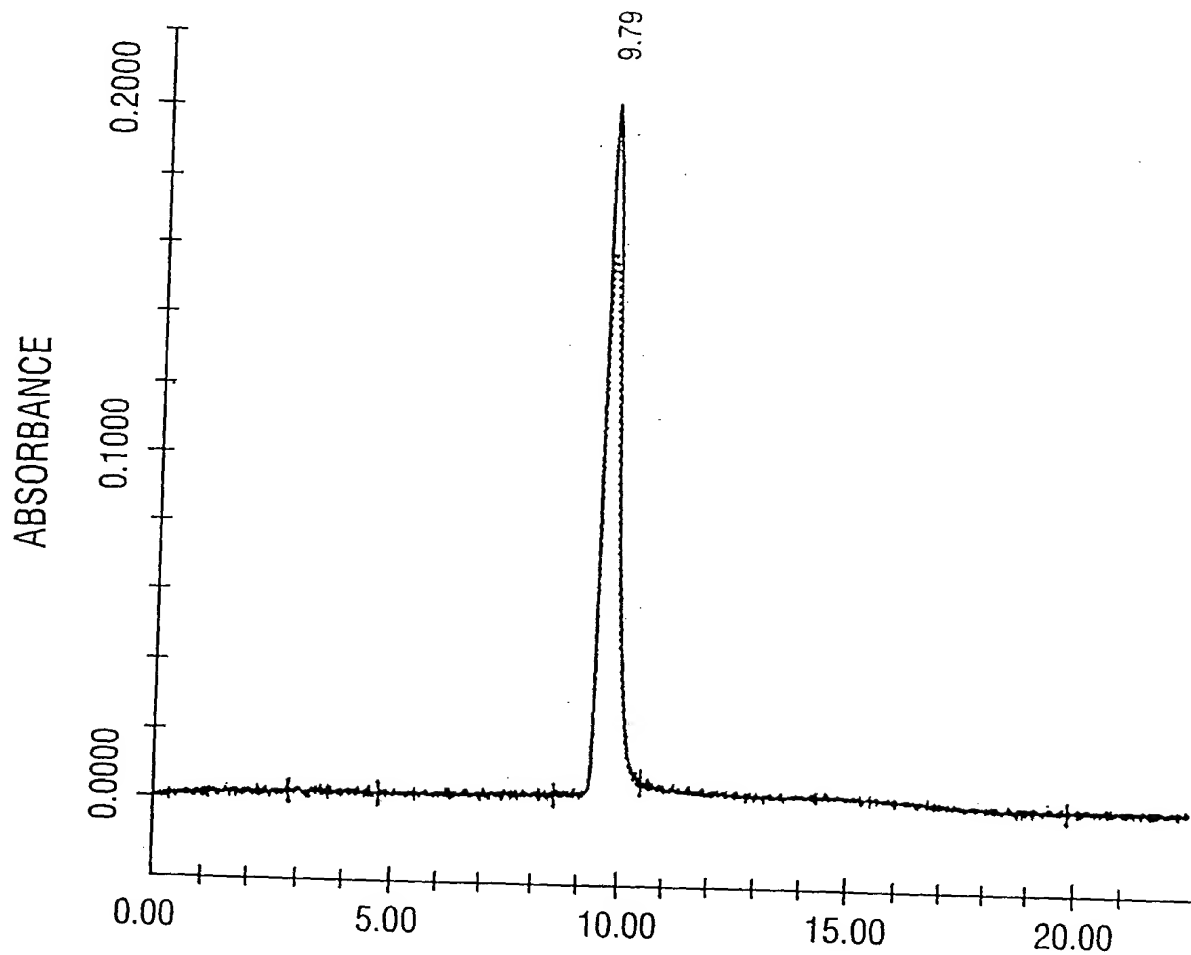


FIG. 18

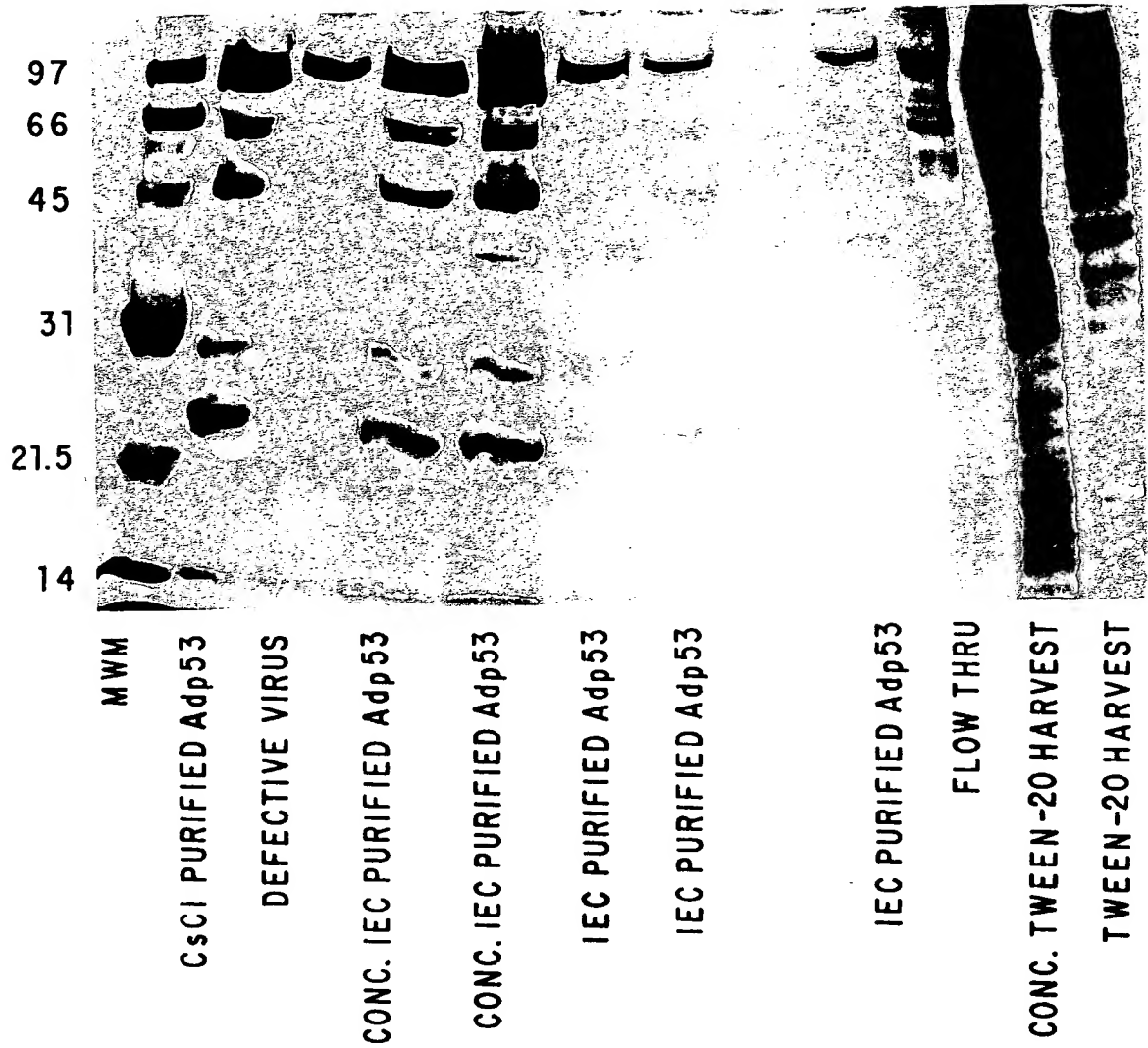


FIG.19A



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

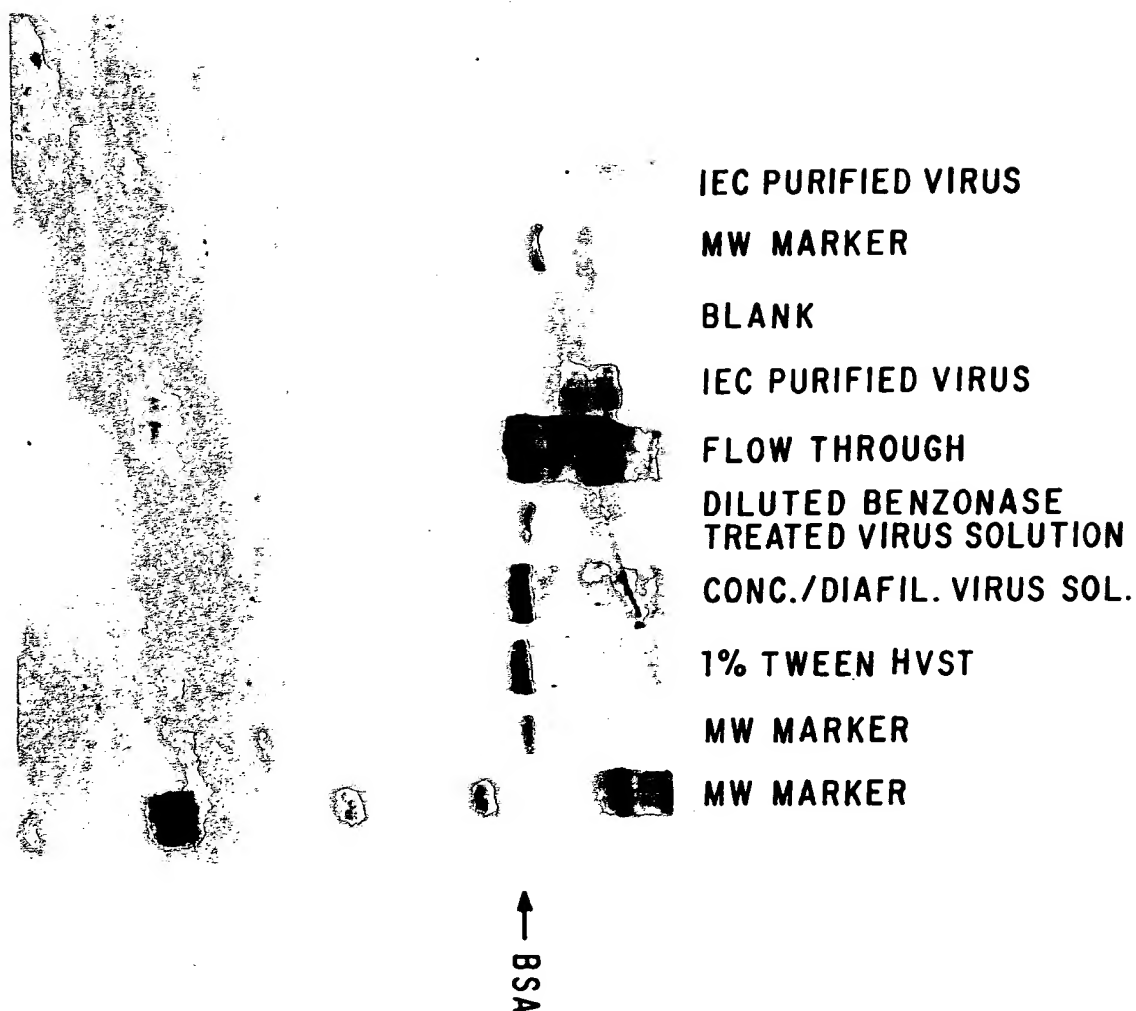


FIG.19B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

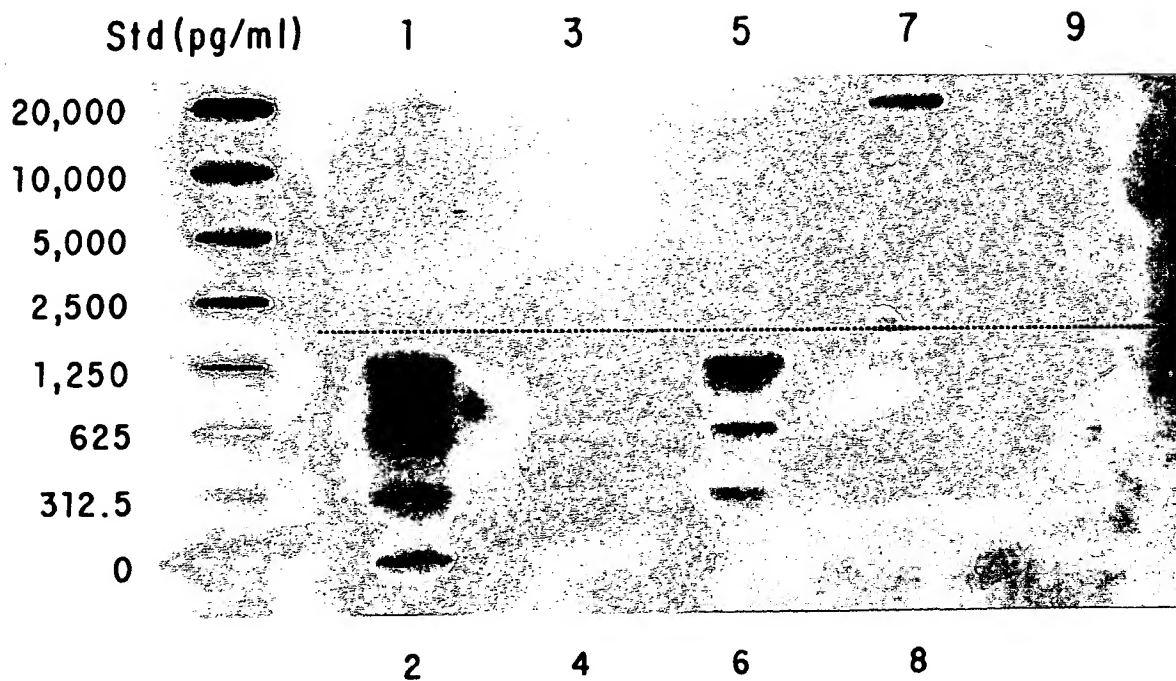


FIG.19C

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

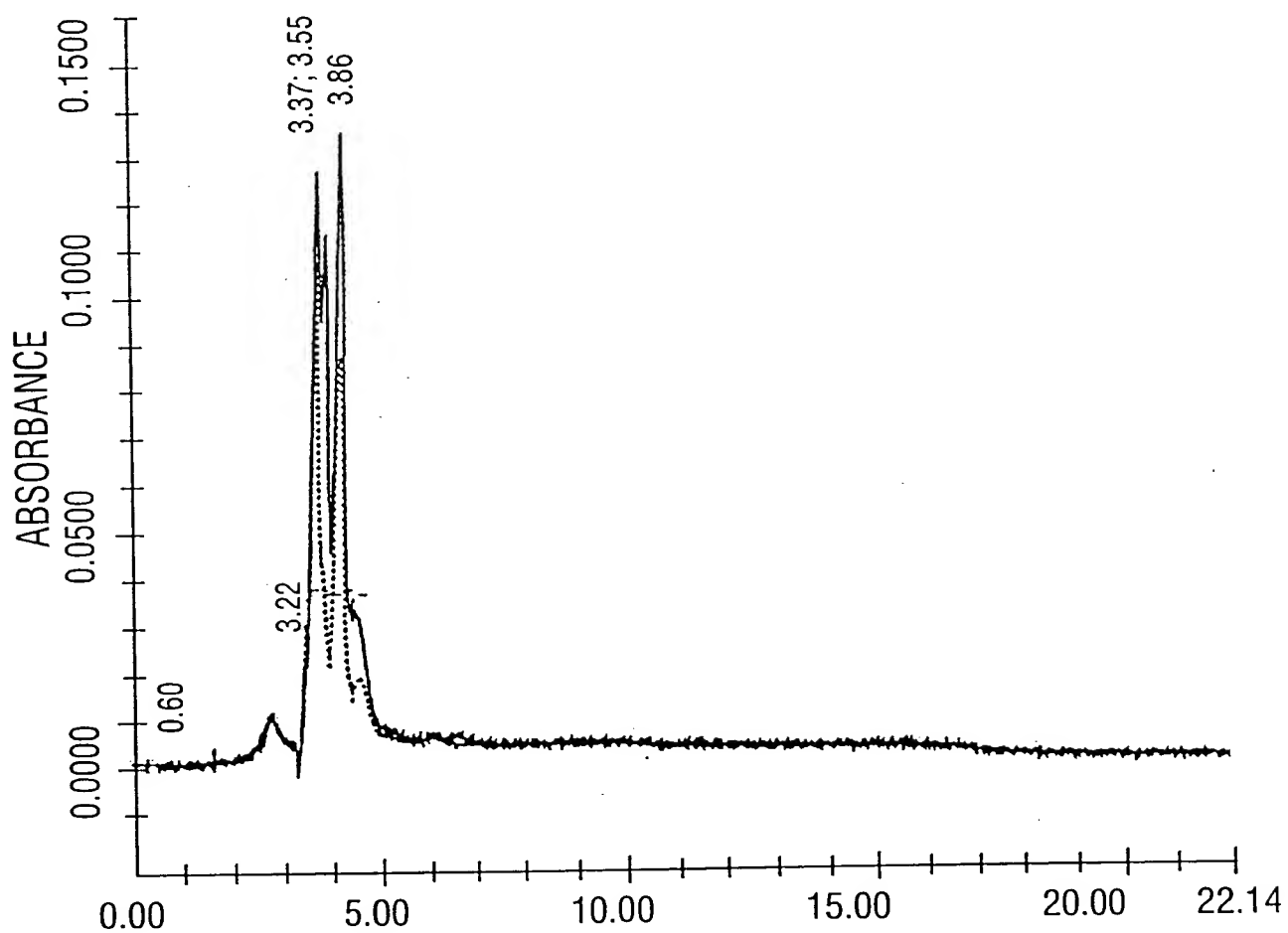


FIG. 20A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

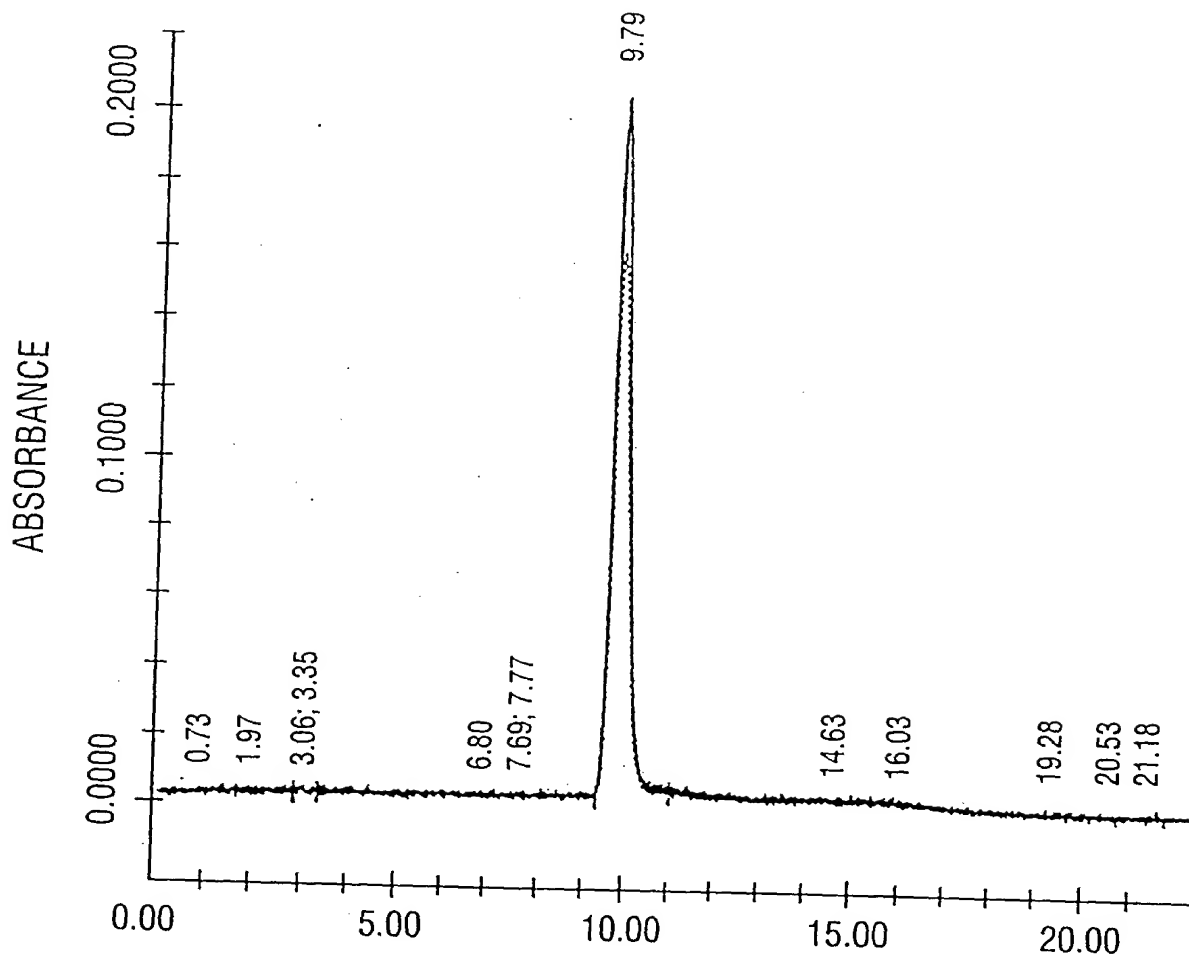


FIG. 20B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

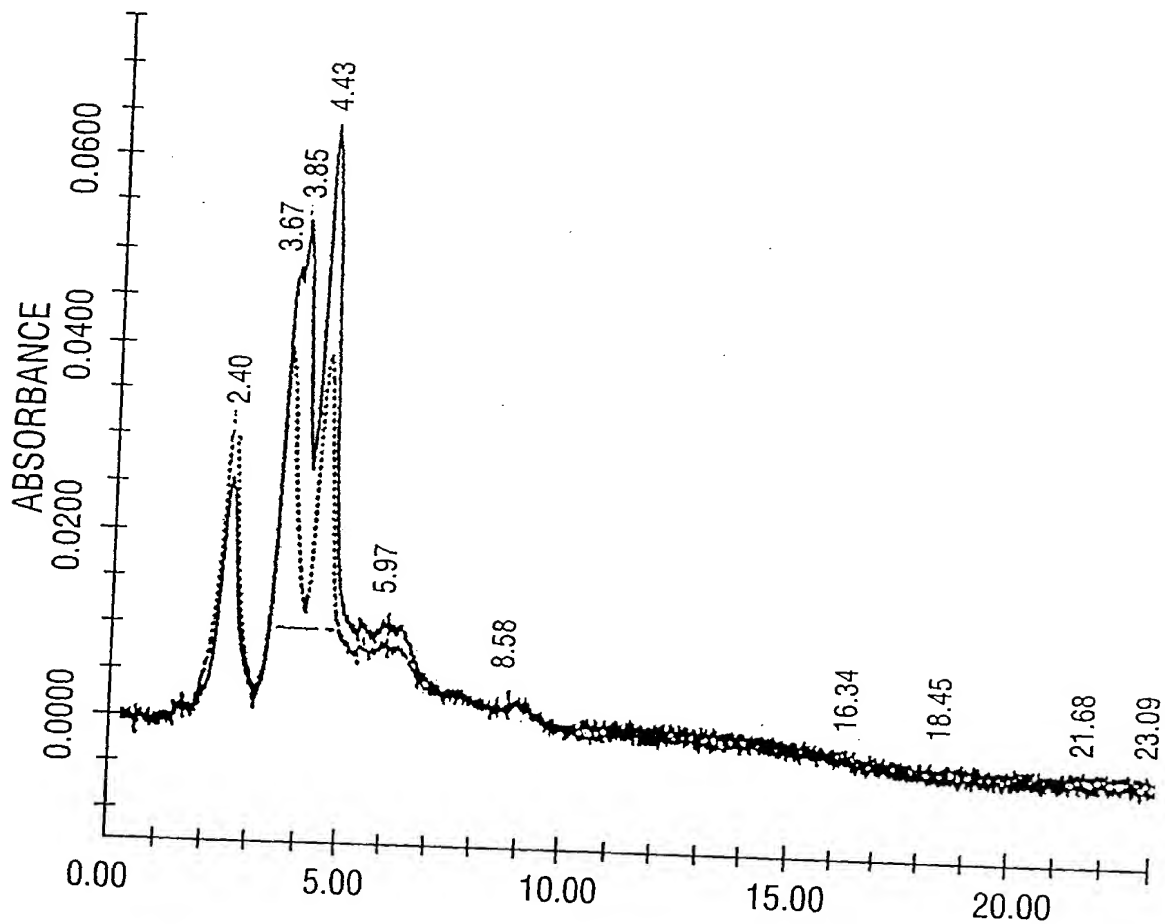


FIG. 20C

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

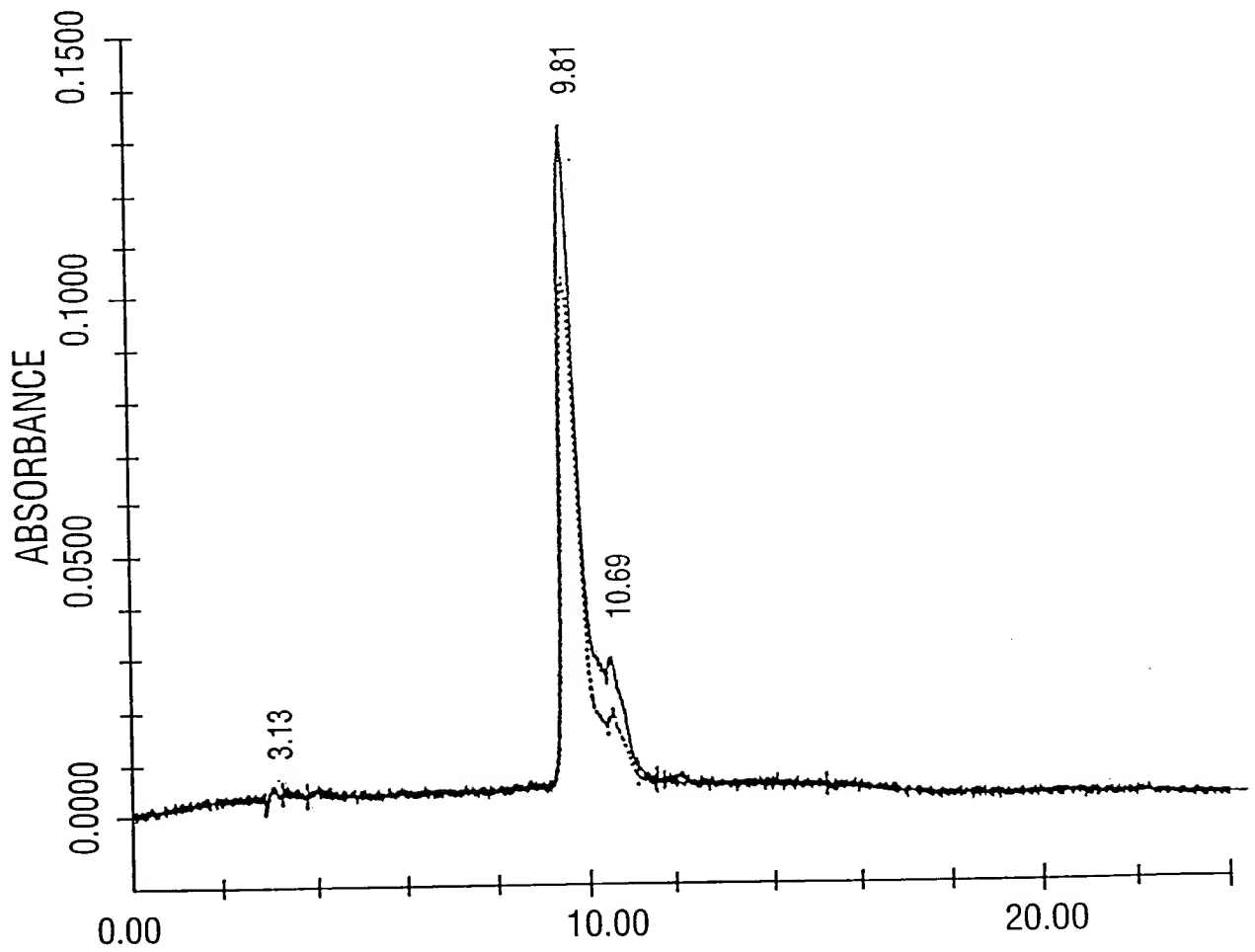


FIG. 20D

APPROVED	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

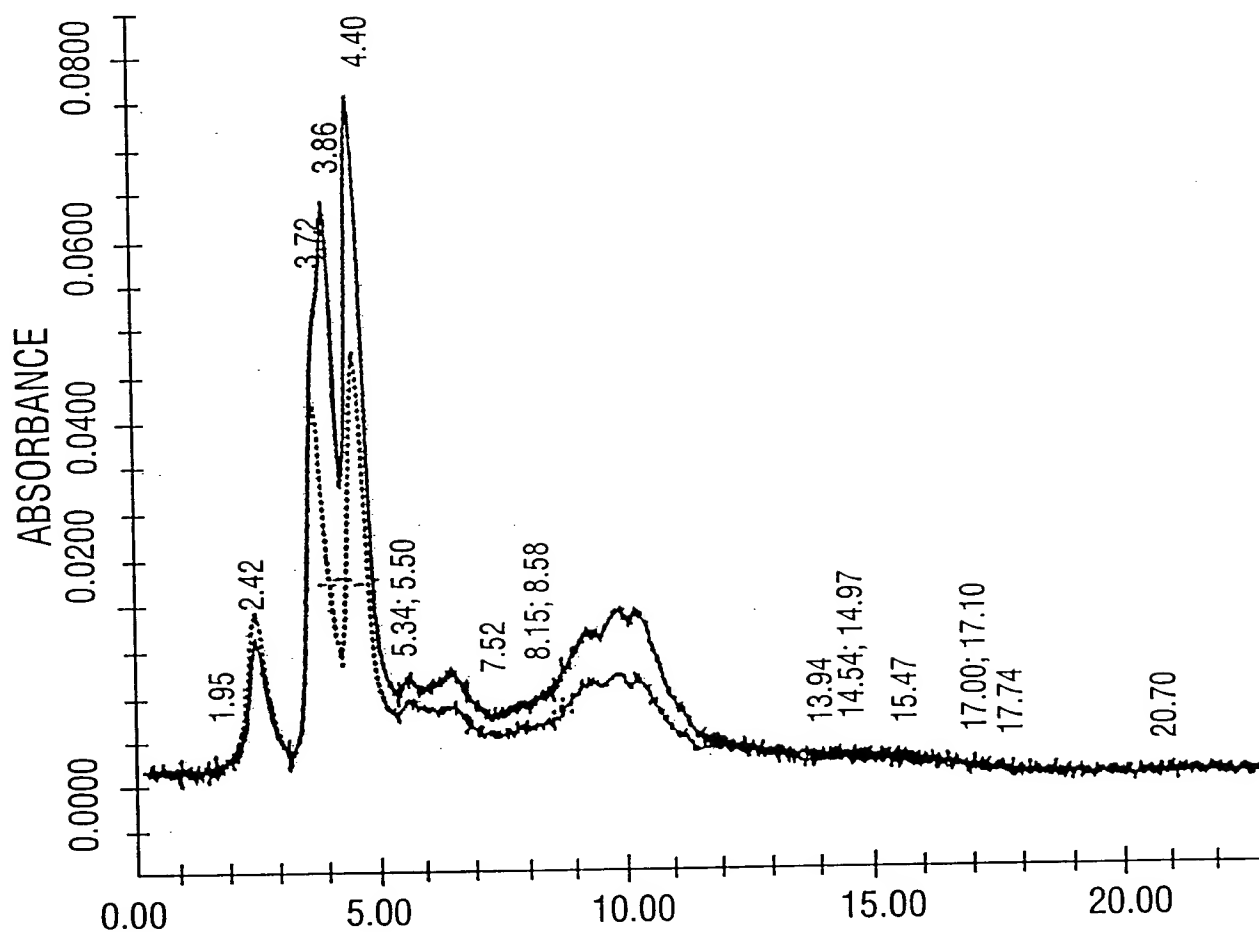


FIG. 20E

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

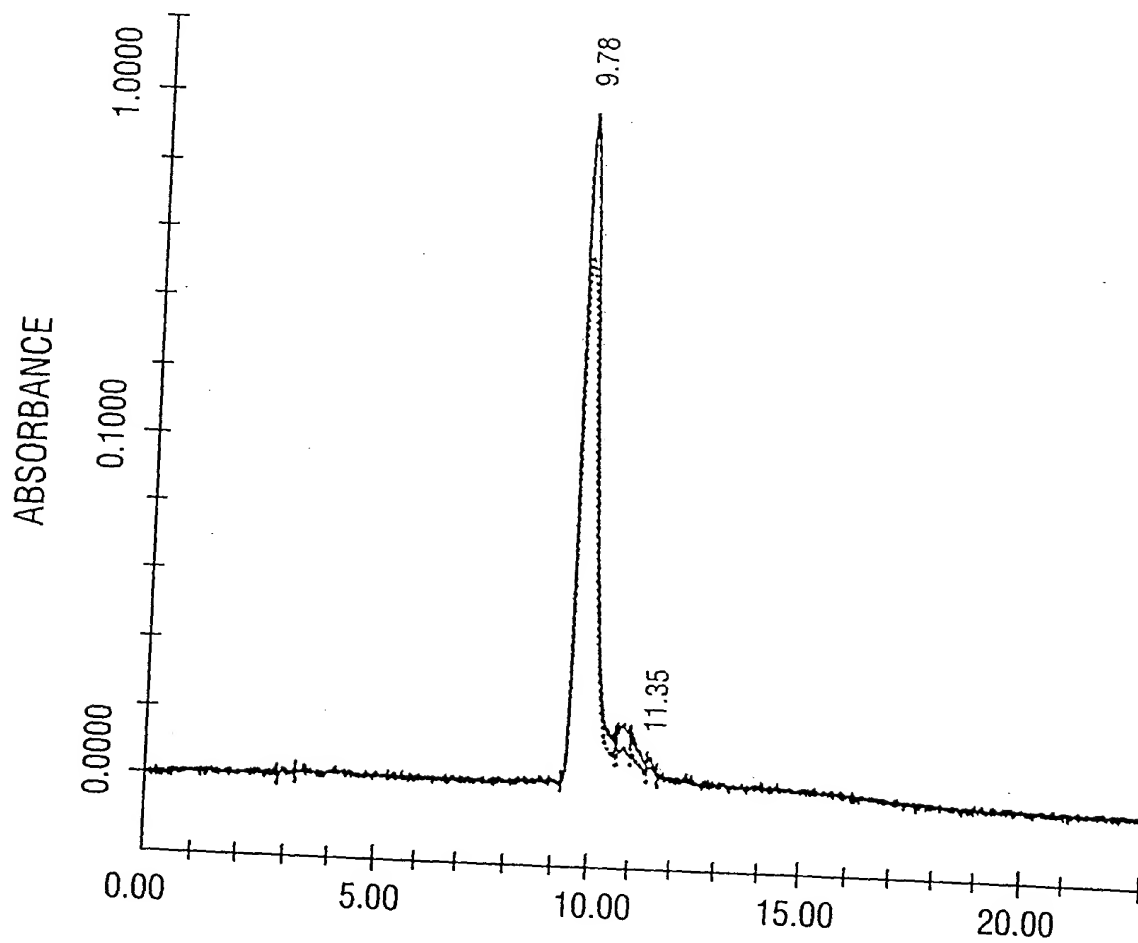
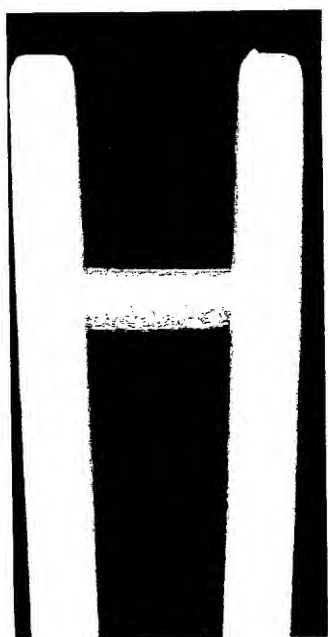


FIG. 20F



APPROVED	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



← DEFECTIVE VIRUS BAND (TITER:  $3 \times 10^7$  PFU/ml)

← INTACT VIRUS BAND (TITER:  $1 \times 10^{11}$  PFU/ml)

FIG.21

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

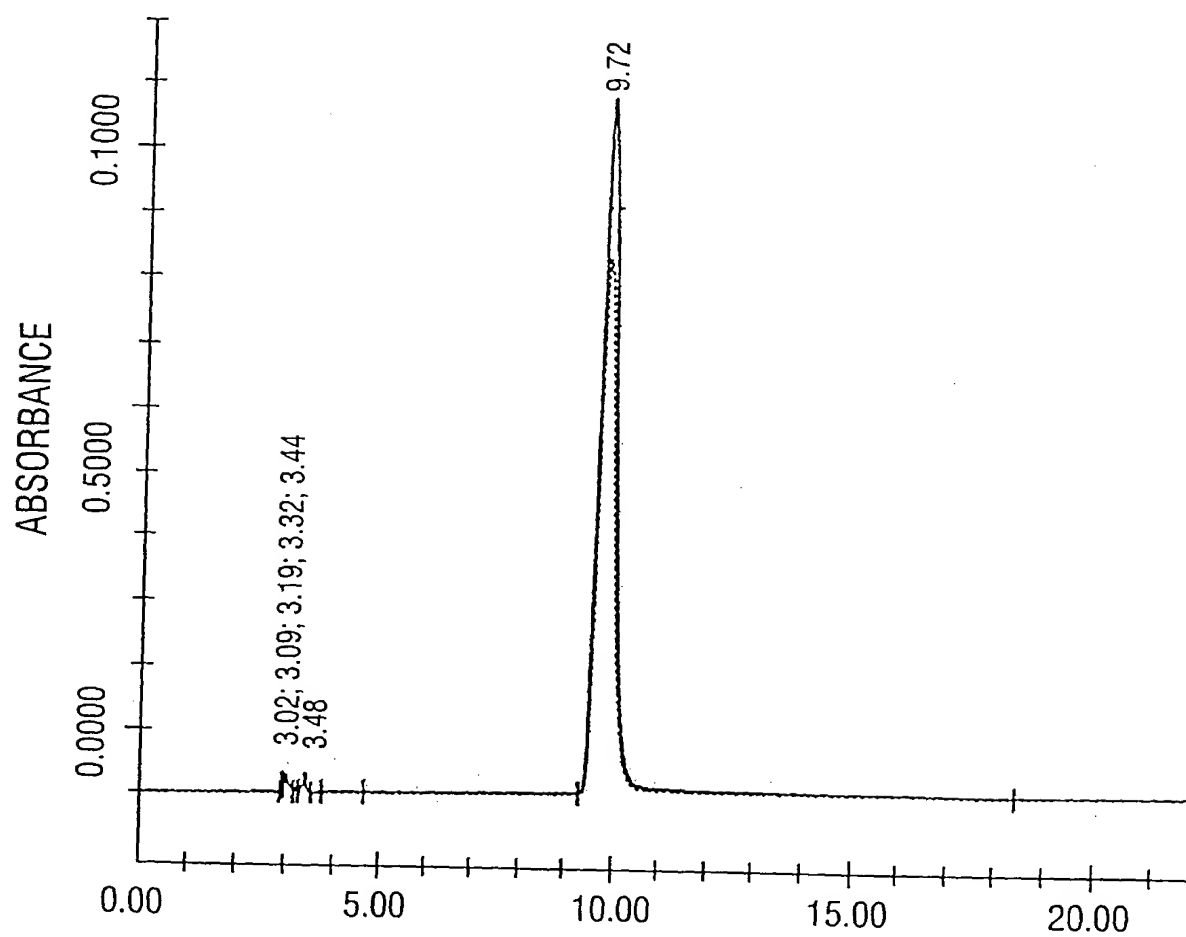


FIG. 22A

APPROVED	O.S. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

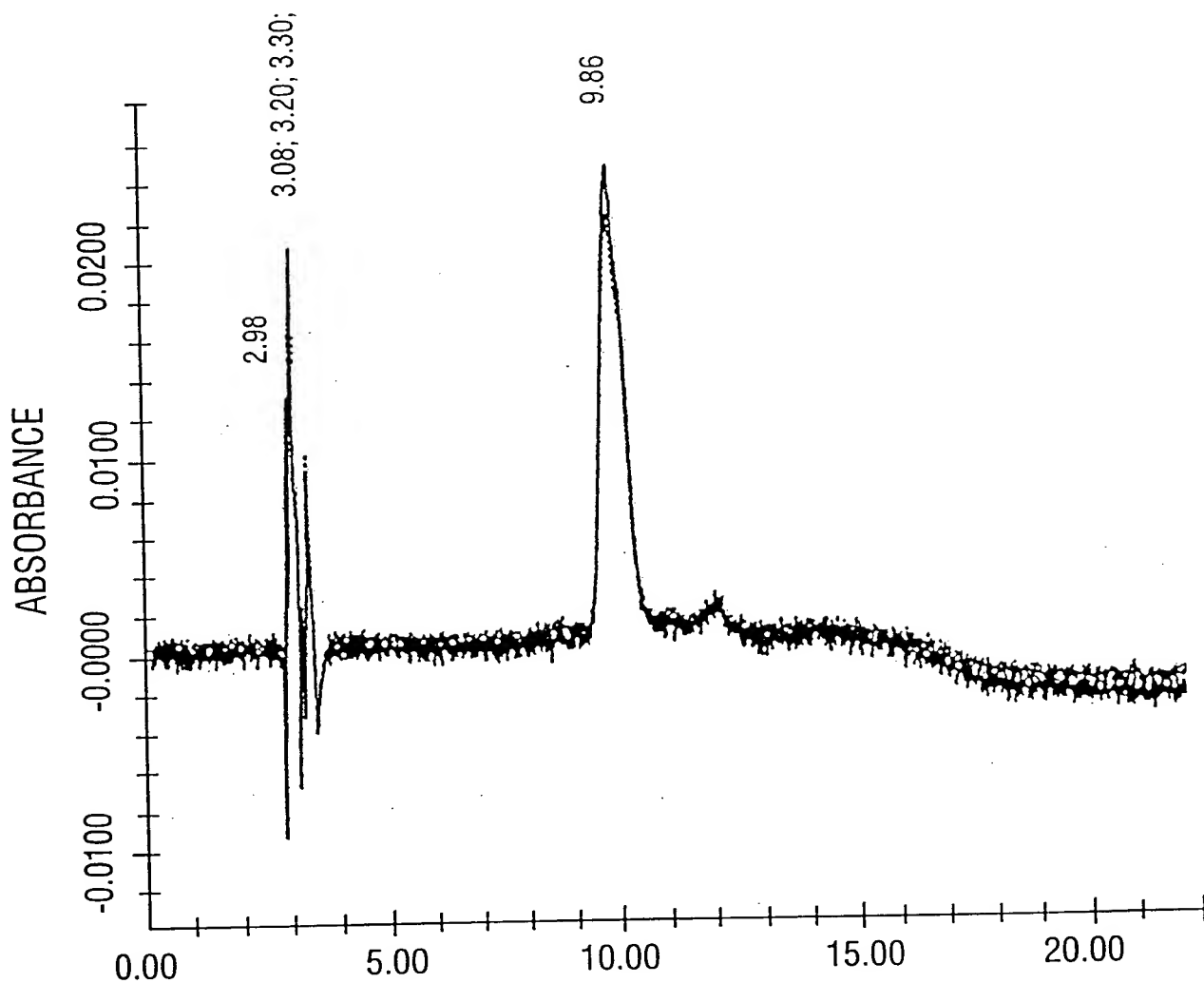


FIG. 22B

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

	TILTER (PFU/ML)	VOL. (ml)	YEILD (PFU)	RECOVERY (%)	STEP ACC.
CUBE (LOW PERFUSION RATE KEEP GLUCOSE > 1g/L 1% TWEEN-20 BUFFER A ↓ HARVEST ↓ CLARIFICATION AND FILTRATION (0.22 UM) ↓ VIRUS SOLUTION	2.6x10 <sup>9</sup>	1900	4.9x10 <sup>12</sup>		
↓ CONC./DIAF. (10-FOLD CONC., DIAF INTO 1M NaCl BUFFER A ↓ CONC. SUP	2.5x10 <sup>10</sup>	200	5x10 <sup>12</sup>	102%	
↓ BENZONASE TREATMENT (O/N, RT, 100u/ml) ↓ TREATED SUP					
↓ DILUTED WITH WATER TO CONDUCTIVITY= 22-25 mS/cm ↓ DILUTED VIRUS SOLUTION	7x10 <sup>9</sup>	700	4.9x10 <sup>12</sup>	98%	100%
↓ PURIFIED VIRUS	1.5x10 <sup>10</sup>	240	3.6x10 <sup>12</sup>	73%	73%
↓ CONC./DIAF (5-FOLD CONC) ↓ FINAL PURIFIED PRODUCT	7x10 <sup>10</sup>	50	3.5x10 <sup>12</sup>	97%	71%

FIG. 23